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(51) International Patent Classification ⁶ : C12Q 1/68, C12N 15/11	A3	(11) International Publication Number: WO 98/20165 (43) International Publication Date: 14 May 1998 (14.05.98)
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(54) Title: BIALLELIC MARKERS (57) Abstract The invention provides nucleic acid segments of the human genome including polymorphic sites. Allele-specific primers and probes hybridizing to regions flanking these sites are also provided. The nucleic acids, primers and probes are used in applications such as forensics, paternity testing, medicine and genetic analysis.		

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BIALLELIC MARKERS

RELATED APPLICATIONS

This application claims priority to U.S. provisional application Serial No. 60/030,455, filed November 6, 1996, the entire teachings of which are incorporated herein by reference.

BACKGROUND OF THE INVENTION

The genomes of all organisms undergo spontaneous mutation in the course of their continuing evolution, generating variant forms of progenitor sequences (Gusella, *Ann. Rev. Biochem.* 55, 831-854 (1986)). The variant form may confer an evolutionary advantage or disadvantage relative to a progenitor form or may be neutral. In some instances, a variant form confers a lethal disadvantage and is not transmitted to subsequent generations of the organism. In other instances, a variant form confers an evolutionary advantage to the species and is eventually incorporated into the DNA of many or most members of the species and effectively becomes the progenitor form. In many instances, both progenitor and variant form(s) survive and co-exist in a species population. The coexistence of multiple forms of a sequence gives rise to polymorphisms.

Several different types of polymorphism have been reported. A restriction fragment length polymorphism (RFLP) is a variation in DNA sequence that alters the length of a restriction fragment (Botstein et al., *Am. J. Hum. Genet.* 32, 314-331 (1980)). The restriction fragment length polymorphism may create or delete a restriction site, thus changing the length of the restriction fragment.

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RFLPs have been widely used in human and animal genetic analyses (see WO 90/13668; W090/11369; Donis-Keller, *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 85-99 (1989)). When a heritable trait can be linked to a particular RFLP, the presence of the RFLP in an individual can be used to predict the likelihood that the animal will also exhibit the trait.

Other polymorphisms take the form of short tandem repeats (STRs) that include tandem di-, tri- and tetra-nucleotide repeated motifs. These tandem repeats are also referred to as variable number tandem repeat (VNTR) polymorphisms. VNTRs have been used in identity and paternity analysis (US 5,075,217; Armour et al., *FEBS Lett.* 307, 113-115 (1992); Horn et al., W0 91/14003; Jeffreys, EP 370,719), and in a large number of genetic mapping studies.

Other polymorphisms take the form of single nucleotide variations between individuals of the same species. Such polymorphisms are far more frequent than RFLPs, STRs and VNTRs. Some single nucleotide polymorphisms occur in protein-coding sequences, in which case, one of the polymorphic forms may give rise to the expression of a defective or other variant protein and, potentially, a genetic disease. Examples of genes, in which polymorphisms within coding sequences give rise to genetic disease include β -globin (sickle cell anemia) and CFTR (cystic fibrosis). Other single nucleotide polymorphisms occur in noncoding regions. Some of these polymorphisms may also result in defective protein expression (e.g., as a result of defective splicing). Other single nucleotide polymorphisms have no phenotypic effects.

Single nucleotide polymorphisms can be used in the same manner as RFLPs and VNTRs, but offer several advantages. Single nucleotide polymorphisms occur with greater

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frequency and are spaced more uniformly throughout the genome than other forms of polymorphism. The greater frequency and uniformity of single nucleotide polymorphisms means that there is a greater probability that such a

5 polymorphism will be found in close proximity to a genetic locus of interest than would be the case for other polymorphisms. The different forms of characterized single nucleotide polymorphisms are often easier to distinguish than other types of polymorphism (e.g., by use of assays

10 employing allele-specific hybridization probes or primers).

Only a small percentage of the total repository of polymorphisms in humans and other organisms has been identified. The limited number of polymorphisms identified to date is due to the large amount of work required for

15 their detection by conventional methods. For example, a conventional approach to identifying polymorphisms might be to sequence the same stretch of DNA in a population of individuals by dideoxy sequencing. In this type of approach, the amount of work increases in proportion to

20 both the length of sequence and the number of individuals in a population and becomes impractical for large stretches of DNA or large numbers of persons.

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SUMMARY OF THE INVENTION

The invention provides nucleic acid sequences comprising nucleic acid segments of from about 10 to about 200 bases as shown in the Table, column 7, including a polymorphic site. Complements of these segments are also included. The segments can be DNA or RNA, and can be double- or single-stranded. Segments can be, for example, 10-20, 10-50 or 10-100 bases long. Preferred segments include a biallelic polymorphic site. The base occupying the polymorphic site in the segments can be the reference (Table, column 3) or an alternative base (Table, column 4).

The invention further provides allele-specific oligonucleotides that hybridize to a segment of a fragment shown in the Table, column 7, or its complement. These oligonucleotides can be probes or primers. Also provided are isolated nucleic acids comprising a sequence shown in the Table, column 7, or the complement thereto, in which the polymorphic site within the sequence is occupied by a base other than the reference base shown in the Table, column 3.

The invention further provides a method of analyzing a nucleic acid from an individual. The method determines which base is present at any one of the polymorphic sites shown in the Table. Optionally, a set of bases occupying a set of the polymorphic sites shown in the Table is determined. This type of analysis can be performed on a number of individuals, who are tested for the presence of a disease phenotype. The presence or absence of disease phenotype is then correlated with a base or set of bases present at the polymorphic sites in the individuals tested.

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DETAILED DESCRIPTION OF THE INVENTION

DEFINITIONS

An oligonucleotide can be DNA or RNA, and single- or double-stranded. Oligonucleotides can be naturally occurring or synthetic, but are typically prepared by synthetic means. The oligonucleotides of the present invention can comprise all of an oligonucleotide sequence presented in column 7 of the Table or a segment of such an oligonucleotide which includes a polymorphic site.

Oligonucleotides can be all of a nucleic acid segment as represented in column 7 of the Table; a nucleic acid sequence which comprises a nucleic acid segment represented in column 7 of the Table and additional nucleic acids (present at either or both ends of a nucleic acid segment of column 7); or a portion (fragment) of a nucleic acid segment represented in column 7 of the Table which includes a polymorphic site. Preferred oligonucleotides of the invention include segments of DNA, or their complements, which include any one of the polymorphic sites shown in the Table. The segments can be between 5 and 250 bases, and, in specific embodiments, are between 5-10, 5-20, 10-20, 10-50, 20-50 or 10-100 bases. The polymorphic site can occur within any position of the segment. The segments can be from any of the allelic forms of DNA shown in the Table.

Hybridization probes are oligonucleotides which bind in a base-specific manner to a complementary strand of nucleic acid. Such probes include peptide nucleic acids, as described in Nielsen et al., *Science* 254, 1497-1500 (1991).

As used herein, the term primer refers to a single-stranded oligonucleotide which acts as a point of initiation of template-directed DNA synthesis under appropriate conditions (e.g., in the presence of four different nucleoside triphosphates and an agent for

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polymerization, such as, DNA or RNA polymerase or reverse transcriptase) in an appropriate buffer and at a suitable temperature. The appropriate length of a primer depends on the intended use of the primer, but typically ranges from 15 to 30 nucleotides. Short primer molecules generally require cooler temperatures to form sufficiently stable hybrid complexes with the template. A primer need not reflect the exact sequence of the template, but must be sufficiently complementary to hybridize with a template.

The term primer site refers to the area of the target DNA to which a primer hybridizes. The term primer pair refers to a set of primers including a 5' (upstream) primer that hybridizes with the 5' end of the DNA sequence to be amplified and a 3' (downstream) primer that hybridizes with the complement of the 3' end of the sequence to be amplified.

As used herein, linkage describes the tendency of genes, alleles, loci or genetic markers to be inherited together as a result of their location on the same chromosome. It can be measured by percent recombination between the two genes, alleles, loci or genetic markers.

As used herein, polymorphism refers to the occurrence of two or more genetically determined alternative sequences or alleles in a population. A polymorphic marker or site is the locus at which divergence occurs. Preferred markers have at least two alleles, each occurring at frequency of greater than 1%, and more preferably greater than 10% or 20% of a selected population. A polymorphic locus may be as small as one base pair. Polymorphic markers include restriction fragment length polymorphisms, variable number of tandem repeats (VNTR's), hypervariable regions, minisatellites, dinucleotide repeats, trinucleotide repeats, tetranucleotide repeats, simple sequence repeats,

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and insertion elements such as Alu. The first identified allelic form is arbitrarily designated as the reference form and other allelic forms are designated as alternative or variant alleles. The allelic form occurring most frequently in a selected population is sometimes referred to as the wildtype form. Diploid organisms may be homozygous or heterozygous for allelic forms. A diallelic or biallelic polymorphism has two forms. A triallelic polymorphism has three forms.

10 A single nucleotide polymorphism occurs at a polymorphic site occupied by a single nucleotide, which is the site of variation between allelic sequences. The site is usually preceded by and followed by highly conserved sequences of the allele (e.g., sequences that vary in less than 1/100 or 1/1000 members of the populations).

A single nucleotide polymorphism usually arises due to substitution of one nucleotide for another at the polymorphic site. A transition is the replacement of one purine by another purine or one pyrimidine by another pyrimidine. A transversion is the replacement of a purine by a pyrimidine or vice versa. Single nucleotide polymorphisms can also arise from a deletion of a nucleotide or an insertion of a nucleotide relative to a reference allele. Typically the polymorphic site is occupied by a base other than the reference base. For example, where the reference allele contains the base "T" at the polymorphic site, the altered allele can contain a "C", "G" or "A" at the polymorphic site.

Hybridizations are usually performed under stringent conditions, for example, at a salt concentration of no more than 1 M and a temperature of at least 25°C. For example, conditions of 5X SSPE (750 mM NaCl, 50 mM NaPhosphate, 5 mM EDTA, pH 7.4) and a temperature of 25-30°C, or equivalent

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conditions, are suitable for allele-specific probe hybridizations. Equivalent conditions can be determined by varying one or more of the parameters given as an example, as known in the art, while maintaining a similar degree of identity or similarity between the target nucleotide sequence and the primer or probe used.

The term "isolated" is used herein to indicate that the material in question exists in a physical milieu distinct from that in which it occurs in nature. For example, an isolated nucleic acid of the invention may be substantially isolated with respect to the complex cellular milieu in which it naturally occurs. In some instances, the isolated material will form part of a composition (for example, a crude extract containing other substances), buffer system or reagent mix. In other circumstance, the material may be purified to essential homogeneity, for example as determined by PAGE or column chromatography such as HPLC. Preferably, an isolated nucleic acid comprises at least about 50, 80 or 90 percent (on a molar basis) of all macromolecular species present.

I. Novel Polymorphisms of the Invention

The novel polymorphisms of the invention are listed in the Table. The first column of the Table lists the names assigned to the fragments in which the polymorphisms occur. The fragments are all human genomic fragments. The sequence of one allelic form of each of the fragments (arbitrarily referred to as the prototypical or reference form) has been previously published. These sequences are listed at <http://www-genome.wi.mit.edu/> (all STS's (sequence tag sites)); <http://shgc.stanford.edu> (Stanford STS's); and <http://ww.tigr.org/> (TIGR STS's). The Web sites also list primers for amplification of the fragments,

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and the genomic location of fragments. Some fragments are expressed sequence tags, and some are random genomic fragments. All information in the websites concerning the fragments listed in the Table is incorporated by reference
5 in its entirety for all purposes.

The second column lists the position in the fragment in which a polymorphic site has been found. Positions are numbered consecutively with the first base of the fragment sequence as listed in one of the above databases being
10 assigned the number one. The third column lists the base occupying the polymorphic site in the sequence in the data base. This base is arbitrarily designated the reference or prototypical form, but it is not necessarily the most frequently occurring form. The fourth column in the Table
15 lists the alternative base(s) at the polymorphic site. The fifth column of the Table lists a 5' (upstream or forward) primer that hybridizes with the 5' end of the DNA sequence to be amplified. The sixth column of the Table lists a 3' (downstream or reverse) primer that hybridizes with the
20 complement of the 3' end of the sequence to be amplified. The seventh column of the Table lists a number of bases of sequence on either side of the polymorphic site in each fragment. The indicated sequences can be either DNA or RNA. In the latter, the T's shown in the Table are
25 replaced by U's. The base occupying the polymorphic site is indicated in EUPAC-IUB ambiguity code.

II. Analysis of Polymorphisms

A. Preparation of Samples

Polymorphisms are detected in a target nucleic acid
30 from an individual being analyzed. For assay of genomic DNA, virtually any biological sample (other than pure red blood cells) is suitable. For example, convenient tissue

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samples include whole blood, semen, saliva, tears, urine, fecal material, sweat, buccal, skin and hair. For assay of cDNA or mRNA, the tissue sample must be obtained from an organ in which the target nucleic acid is expressed. For example, if the target nucleic acid is a cytochrome P450, the liver is a suitable source.

Many of the methods described below require amplification of DNA from target samples. This can be accomplished by e.g., PCR. See generally *PCR Technology: Principles and Applications for DNA Amplification* (ed. H.A. Erlich, Freeman Press, NY, NY, 1992); *PCR Protocols: A Guide to Methods and Applications* (eds. Innis, et al., Academic Press, San Diego, CA, 1990); Mattila et al., *Nucleic Acids Res.* 19, 4967 (1991); Eckert et al., *PCR Methods and Applications* 1, 17 (1991); *PCR* (eds. McPherson et al., IRL Press, Oxford); and U.S. Patent 4,683,202.

Other suitable amplification methods include the ligase chain reaction (LCR) (see Wu and Wallace, *Genomics* 4, 560 (1989), Landegren et al., *Science* 241, 1077 (1988), transcription amplification (Kwoh et al., *Proc. Natl. Acad. Sci. USA* 86, 1173 (1989)), and self-sustained sequence replication (Guatelli et al., *Proc. Nat. Acad. Sci. USA*, 87, 1874 (1990)) and nucleic acid based sequence amplification (NASBA). The latter two amplification methods involve isothermal reactions based on isothermal transcription, which produce both single stranded RNA (ssRNA) and double stranded DNA (dsDNA) as the amplification products in a ratio of about 30 or 100 to 1, respectively.

30 B. Detection of Polymorphisms in Target DNA

There are two distinct types of analysis of target DNA for detecting polymorphisms. The first type of analysis,

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sometimes referred to as de novo characterization, is carried out to identify polymorphic sites not previously characterized (i.e., to identify new polymorphisms). This analysis compares target sequences in different individuals to identify points of variation, i.e., polymorphic sites. By analyzing groups of individuals representing the greatest ethnic diversity among humans and greatest breed and species variety in plants and animals, patterns characteristic of the most common alleles/haplotypes of the locus can be identified, and the frequencies of such alleles/haplotypes in the population can be determined. Additional allelic frequencies can be determined for subpopulations characterized by criteria such as geography, race, or gender. The de novo identification of polymorphisms of the invention is described in the Examples section. The second type of analysis determines which form(s) of a characterized (known) polymorphism are present in individuals under test. There are a variety of suitable procedures, which are discussed in turn.

1. Allele-Specific Probes

The design and use of allele-specific probes for analyzing polymorphisms is described by e.g., Saiki et al., *Nature* 324, 163-166 (1986); Dattagupta, EP 235,726, Saiki, WO 89/11548. Allele-specific probes can be designed that hybridize to a segment of target DNA from one individual but do not hybridize to the corresponding segment from another individual due to the presence of different polymorphic forms in the respective segments from the two individuals. Hybridization conditions should be sufficiently stringent that there is a significant difference in hybridization intensity between alleles, and preferably an essentially binary response, whereby a probe

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hybridizes to only one of the alleles. Some probes are designed to hybridize to a segment of target DNA such that the polymorphic site aligns with a central position (e.g., in a 15-mer at the 7 position; in a 16-mer, at either the 8 or 9 position) of the probe. This design of probe achieves good discrimination in hybridization between different allelic forms.

Allele-specific probes are often used in pairs, one member of a pair showing a perfect match to a reference form of a target sequence and the other member showing a perfect match to a variant form. Several pairs of probes can then be immobilized on the same support for simultaneous analysis of multiple polymorphisms within the same target sequence.

2. Tiling Arrays

The polymorphisms can also be identified by hybridization to nucleic acid arrays, some examples of which are described in WO 95/11995. One form of such arrays is described in the Examples section in connection with de novo identification of polymorphisms. The same array or a different array can be used for analysis of characterized polymorphisms. WO 95/11995 also describes subarrays that are optimized for detection of a variant form of a precharacterized polymorphism. Such a subarray contains probes designed to be complementary to a second reference sequence, which is an allelic variant of the first reference sequence. The second group of probes is designed by the same principles as described in the Examples, except that the probes exhibit complementarity to the second reference sequence. The inclusion of a second group (or further groups) can be particularly useful for analyzing short subsequences of the primary reference

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sequence in which multiple mutations are expected to occur within a short distance commensurate with the length of the probes (e.g., two or more mutations within 9 to 21 bases).

3. Allele-Specific Primers

5 An allele-specific primer hybridizes to a site on target DNA overlapping a polymorphism and only primes amplification of an allelic form to which the primer exhibits perfect complementarity. See Gibbs, *Nucleic Acid Res.* 17, 2427-2448 (1989). This primer is used in
10 conjunction with a second primer which hybridizes at a distal site. Amplification proceeds from the two-primers, resulting in a detectable product which indicates the particular allelic form is present. A control is usually performed with a second pair of primers, one of which shows
15 a single base mismatch at the polymorphic site and the other of which exhibits perfect complementarity to a distal site. The single-base mismatch prevents amplification and no detectable product is formed. The method works best when the mismatch is included in the 3'-most position of
20 the oligonucleotide aligned with the polymorphism because this position is most destabilizing to elongation from the primer (see, e.g., WO 93/22456).

4. Direct-Sequencing

The direct analysis of the sequence of polymorphisms of
25 the present invention can be accomplished using either the dideoxy chain termination method or the Maxam Gilbert method (see Sambrook et al., *Molecular Cloning, A Laboratory Manual* (2nd Ed., CSHP, New York 1989); Zyskind et al., *Recombinant DNA Laboratory Manual*, (Acad. Press,
30 1988)).

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5. Denaturing Gradient Gel Electrophoresis

Amplification products generated using the polymerase chain reaction can be analyzed by the use of denaturing gradient gel electrophoresis. Different alleles can be identified based on the different sequence-dependent melting properties and electrophoretic migration of DNA in solution. Erlich, ed., *PCR Technology, Principles and Applications for DNA Amplification*, (W.H. Freeman and Co, New York, 1992), Chapter 7.

10 6. Single-Strand Conformation Polymorphism Analysis

Alleles of target sequences can be differentiated using single-strand conformation polymorphism analysis, which identifies base differences by alteration in electrophoretic migration of single stranded PCR products, as described in Orita et al., *Proc. Nat. Acad. Sci.* 86, 2766-2770 (1989). Amplified PCR products can be generated as described above, and heated or otherwise denatured, to form single stranded amplification products. Single-stranded nucleic acids may refold or form secondary structures which are partially dependent on the base sequence. The different electrophoretic mobilities of single-stranded amplification products can be related to base-sequence differences between alleles of target sequences.

25 III. Methods of Use

After determining polymorphic form(s) present in an individual at one or more polymorphic sites, this information can be used in a number of methods.

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A. Forensics

Determination of which polymorphic forms occupy a set of polymorphic sites in an individual identifies a set of polymorphic forms that distinguishes the individual. See
5 generally National Research Council, *The Evaluation of Forensic DNA Evidence* (Eds. Pollard et al., National Academy Press, DC, 1996). The more sites that are analyzed, the lower the probability that the set of polymorphic forms in one individual is the same as that in
10 an unrelated individual. Preferably, if multiple sites are analyzed, the sites are unlinked. Thus, polymorphisms of the invention are often used in conjunction with polymorphisms in distal genes. Preferred polymorphisms for use in forensics are biallelic because the population
15 frequencies of two polymorphic forms can usually be determined with greater accuracy than those of multiple polymorphic forms at multi-allelic loci.

The capacity to identify a distinguishing or unique set of forensic markers in an individual is useful for forensic
20 analysis. For example, one can determine whether a blood sample from a suspect matches a blood or other tissue sample from a crime scene by determining whether the set of polymorphic forms occupying selected polymorphic sites is the same in the suspect and the sample. If the set of
25 polymorphic markers does not match between a suspect and a sample, it can be concluded (barring experimental error) that the suspect was not the source of the sample. If the set of markers does match, one can conclude that the DNA from the suspect is consistent with that found at the crime
30 scene. If frequencies of the polymorphic forms at the loci tested have been determined (e.g., by analysis of a suitable population of individuals), one can perform a statistical analysis to determine the probability that a

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match of suspect and crime scene sample would occur by chance.

$p(ID)$ is the probability that two random individuals have the same polymorphic or allelic form at a given polymorphic site. In biallelic loci, four genotypes are possible: AA, AB, BA, and BB. If alleles A and B occur in a haploid genome of the organism with frequencies x and y , the probability of each genotype in a diploid organism is (see WO 95/12607):

- 10 Homozygote: $p(AA) = x^2$
 Homozygote: $p(BB) = y^2 = (1-x)^2$
 Single Heterozygote: $p(AB) = p(BA) = xy = x(1-x)$
 Both Heterozygotes: $p(AB+BA) = 2xy = 2x(1-x)$

The probability of identity at one locus (i.e., the probability that two individuals, picked at random from a population will have identical polymorphic forms at a given locus) is given by the equation:

15 $p(ID) = (x^2)^2 + (2xy)^2 + (y^2)^2$.

These calculations can be extended for any number of polymorphic forms at a given locus. For example, the probability of identity $p(ID)$ for a 3-allele system where the alleles have the frequencies in the population of x , y and z , respectively, is equal to the sum of the squares of the genotype frequencies:

25 $p(ID) = x^4 + (2xy)^2 + (2yz)^2 + (2xz)^2 + z^4 + y^4$

In a locus of n alleles, the appropriate binomial expansion is used to calculate $p(ID)$ and $p(exc)$.

The cumulative probability of identity ($\text{cum } p(ID)$) for each of multiple unlinked loci is determined by multiplying the probabilities provided by each locus.

30

$$\text{cum } p(ID) = p(ID1)p(ID2)p(ID3) \dots p(IDn)$$

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The cumulative probability of non-identity for n loci (i.e. the probability that two random individuals will be different at 1 or more loci) is given by the equation:

$$\text{cum } p(\text{nonID}) = 1 - \text{cum } p(\text{ID}).$$

- 5 If several polymorphic loci are tested, the cumulative probability of non-identity for random individuals becomes very high (e.g., one billion to one). Such probabilities can be taken into account together with other evidence in determining the guilt or innocence of the suspect.

10 B. Paternity Testing

The object of paternity testing is usually to determine whether a male is the father of a child. In most cases, the mother of the child is known and thus, the mother's contribution to the child's genotype can be traced.

- 15 Paternity testing investigates whether the part of the child's genotype not attributable to the mother is consistent with that of the putative father. Paternity testing can be performed by analyzing sets of polymorphisms in the putative father and the child.

- 20 If the set of polymorphisms in the child attributable to the father does not match the set of polymorphisms of the putative father, it can be concluded, barring experimental error, that the putative father is not the real father. If the set of polymorphisms in the child
- 25 attributable to the father does match the set of polymorphisms of the putative father, a statistical calculation can be performed to determine the probability of coincidental match.

- 30 The probability of parentage exclusion (representing the probability that a random male will have a polymorphic form at a given polymorphic site that makes him

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incompatible as the father) is given by the equation (see WO 95/12607):

$$p(\text{exc}) = xy(1-xy)$$

where x and y are the population frequencies of alleles A and B of a biallelic polymorphic site.

(At a triallelic site $p(\text{exc}) = xy(1-xy) + yz(1-yz) + xz(1-xz) + 3xyz(1-xyz)$), where x, y and z are the respective population frequencies of alleles A, B and C).

The probability of non-exclusion is

$$p(\text{non-exc}) = 1 - p(\text{exc})$$

The cumulative probability of non-exclusion (representing the value obtained when n loci are used) is thus:

$$\text{cum } p(\text{non-exc}) = p(\text{non-exc1})p(\text{non-exc2})p(\text{non-exc3})\dots$$

$$p(\text{non-excn})$$

The cumulative probability of exclusion for n loci (representing the probability that a random male will be excluded)

$$\text{cum } p(\text{exc}) = 1 - \text{cum } p(\text{non-exc}).$$

If several polymorphic loci are included in the analysis, the cumulative probability of exclusion of a random male is very high. This probability can be taken into account in assessing the liability of a putative father whose polymorphic marker set matches the child's polymorphic marker set attributable to his/her father.

C. Correlation of Polymorphisms with Phenotypic Traits

The polymorphisms of the invention may contribute to the phenotype of an organism in different ways. Some polymorphisms occur within a protein coding sequence and contribute to phenotype by affecting protein structure. The effect may be neutral, beneficial or detrimental, or both beneficial and detrimental, depending on the

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circumstances. For example, a heterozygous sickle cell mutation confers resistance to malaria, but a homozygous sickle cell mutation is usually lethal. Other polymorphisms occur in noncoding regions but may exert phenotypic effects indirectly via influence on replication, transcription, and translation. A single polymorphism may affect more than one phenotypic trait. Likewise, a single phenotypic trait may be affected by polymorphisms in different genes. Further, some polymorphisms predispose an individual to a distinct mutation that is causally related to a certain phenotype.

Phenotypic traits include diseases that have known but hitherto unmapped genetic components (e.g., agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial hypercholesterolemia, polycystic kidney disease, hereditary spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos syndrome, osteogenesis imperfecta, and acute intermittent porphyria). Phenotypic traits also include symptoms of, or susceptibility to, multifactorial diseases of which a component is or may be genetic, such as autoimmune diseases, inflammation, cancer, diseases of the nervous system, and infection by pathogenic microorganisms. Some examples of autoimmune diseases include rheumatoid arthritis, multiple sclerosis, diabetes (insulin-dependent and non-independent), systemic lupus erythematosus and Graves disease. Some examples of cancers include cancers of the bladder, brain, breast, colon, esophagus, kidney, leukemia, liver, lung, oral cavity, ovary, pancreas, prostate, skin, stomach and uterus. Phenotypic traits also include characteristics such as longevity, appearance

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(e.g., baldness, obesity), strength, speed, endurance, fertility, and susceptibility or receptivity to particular drugs or therapeutic treatments.

Correlation is performed for a population of
5 individuals who have been tested for the presence or
absence of a phenotypic trait of interest and for
polymorphic markers sets. To perform such analysis, the
presence or absence of a set of polymorphisms (i.e. a
polymorphic set) is determined for a set of the
10 individuals, some of whom exhibit a particular trait, and
some of which exhibit lack of the trait. The alleles of
each polymorphism of the set are then reviewed to determine
whether the presence or absence of a particular allele is
associated with the trait of interest. Correlation can be
15 performed by standard statistical methods such as a χ^2 -
squared test and statistically significant correlations
between polymorphic form(s) and phenotypic characteristics
are noted. For example, it might be found that the
presence of allele A1 at polymorphism A correlates with
20 heart disease. As a further example, it might be found
that the combined presence of allele A1 at polymorphism A
and allele B1 at polymorphism B correlates with increased
milk production of a farm animal.

Such correlations can be exploited in several ways. In
25 the case of a strong correlation between a set of one or
more polymorphic forms and a disease for which treatment is
available, detection of the polymorphic form set in a human
or animal patient may justify immediate administration of
treatment, or at least the institution of regular
30 monitoring of the patient. Detection of a polymorphic form
correlated with serious disease in a couple contemplating a
family may also be valuable to the couple in their
reproductive decisions. For example, the female partner

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might elect to undergo in vitro fertilization to avoid the possibility of transmitting such a polymorphism from her husband to her offspring. In the case of a weaker, but still statistically significant correlation between a polymorphic set and human disease, immediate therapeutic intervention or monitoring may not be justified. Nevertheless, the patient can be motivated to begin simple life-style changes (e.g., diet, exercise) that can be accomplished at little cost to the patient but confer potential benefits in reducing the risk of conditions to which the patient may have increased susceptibility by virtue of variant alleles. Identification of a polymorphic set in a patient correlated with enhanced receptiveness to one of several treatment regimes for a disease indicates that this treatment regime should be followed.

For animals and plants, correlations between characteristics and phenotype are useful for breeding for desired characteristics. For example, Beitz et al., US 5,292,639 discuss use of bovine mitochondrial polymorphisms in a breeding program to improve milk production in cows. To evaluate the effect of mtDNA D-loop sequence polymorphism on milk production, each cow was assigned a value of 1 if variant or 0 if wildtype with respect to a prototypical mitochondrial DNA sequence at each of 17 locations considered. Each production trait was analyzed individually with the following animal model:

$$Y_{ijkpn} = \mu + YS_i + P_j + X_k + \beta_1 + \dots \beta_{17} + PE_n + a_n + e_p$$

where Y_{ijkpn} is the milk, fat, fat percentage, SNF, SNF percentage, energy concentration, or lactation energy record; μ is an overall mean; YS_i is the effect common to all cows calving in year-season; X_k is the effect common to cows in either the high or average selection line; β_1 to β_{17} are the binomial regressions of production record on mtDNA

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D-loop sequence polymorphisms; PE_n is permanent environmental effect common to all records of cow n ; a_n is effect of animal n and is composed of the additive genetic contribution of sire and dam breeding values and a Mendelian sampling effect; and e_p is a random residual. It was found that eleven of seventeen polymorphisms tested influenced at least one production trait. Bovines having the best polymorphic forms for milk production at these eleven loci are used as parents for breeding the next generation of the herd.

D. Genetic Mapping of Phenotypic Traits

The previous section concerns identifying correlations between phenotypic traits and polymorphisms that directly or indirectly contribute to those traits. The present section describes identification of a physical linkage between a genetic locus associated with a trait of interest and polymorphic markers that are not associated with the trait, but are in physical proximity with the genetic locus responsible for the trait and co-segregate with it. Such analysis is useful for mapping a genetic locus associated with a phenotypic trait to a chromosomal position, and thereby cloning gene(s) responsible for the trait. See Lander et al., *Proc. Natl. Acad. Sci. (USA)* 83, 7353-7357 (1986); Lander et al., *Proc. Natl. Acad. Sci. (USA)* 84, 2363-2367 (1987); Donis-Keller et al., *Cell* 51, 319-337 (1987); Lander et al., *Genetics* 121, 185-199 (1989)). Genes localized by linkage can be cloned by a process known as directional cloning. See Wainwright, *Med. J. Australia* 159, 170-174 (1993); Collins, *Nature Genetics* 1, 3-6 (1992).

Linkage studies are typically performed on members of a family. Available members of the family are characterized

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for the presence or absence of a phenotypic trait and for a set of polymorphic markers. The distribution of polymorphic markers in an informative meiosis is then analyzed to determine which polymorphic markers co-segregate with a phenotypic trait. See, e.g., Kerem et al., *Science* 245, 1073-1080 (1989); Monaco et al., *Nature* 316, 842 (1985); Yamoka et al., *Neurology* 40, 222-226 (1990); Rossiter et al., *FASEB Journal* 5, 21-27 (1991).

Linkage is analyzed by calculation of LOD (log of the odds) values. A lod value is the relative likelihood of obtaining observed segregation data for a marker and a genetic locus when the two are located at a recombination fraction θ , versus the situation in which the two are not linked, and thus segregating independently (Thompson & Thompson, *Genetics in Medicine* (5th ed, W.B. Saunders Company, Philadelphia, 1991); Strachan, "Mapping the human genome" in *The Human Genome* (BIOS Scientific Publishers Ltd, Oxford), Chapter 4). A series of likelihood ratios are calculated at various recombination fractions (θ), ranging from $\theta = 0.0$ (coincident loci) to $\theta = 0.50$ (unlinked). Thus, the likelihood at a given value of θ is: probability of data if loci linked at θ to probability of data if loci unlinked. The computed likelihoods are usually expressed as the \log_{10} of this ratio (i.e., a lod score). For example, a lod score of 3 indicates 1000:1 odds against an apparent observed linkage being a coincidence. The use of logarithms allows data collected from different families to be combined by simple addition. Computer programs are available for the calculation of lod scores for differing values of θ (e.g., LIPED, MLINK (Lathrop, *Proc. Nat. Acad. Sci. (USA)* 81, 3443-3446 (1984)). For any particular lod score, a recombination fraction may be determined from mathematical tables. See

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Smith et al., *Mathematical tables for research workers in human genetics* (Churchill, London, 1961); Smith, *Ann. Hum. Genet.* 32, 127-150 (1968). The value of θ at which the lod score is the highest is considered to be the best estimate
5 of the recombination fraction.

Positive lod score values suggest that the two loci are linked, whereas negative values suggest that linkage is less likely (at that value of θ) than the possibility that the two loci are unlinked. By convention, a combined lod
10 score of +3 or greater (equivalent to greater than 1000:1 odds in favor of linkage) is considered definitive evidence that two loci are linked. Similarly, by convention, a negative lod score of -2 or less is taken as definitive evidence against linkage of the two loci being compared.
15 Negative linkage data are useful in excluding a chromosome or a segment thereof from consideration. The search focuses on the remaining non-excluded chromosomal locations.

IV. Modified Polypeptides and Gene Sequences

20 The invention further provides variant forms of nucleic acids and corresponding proteins. The nucleic acids comprise one of the sequences described in the Table, column 8, in which the polymorphic position is occupied by one of the alternative bases for that position. Some
25 nucleic acids encode full-length variant forms of proteins. Similarly, variant proteins have the prototypical amino acid sequences encoded by nucleic acid sequences shown in the Table, column 8, (read so as to be in-frame with the full-length coding sequence of which it is a component)
30 except at an amino acid encoded by a codon including one of the polymorphic positions shown in the Table. That position is occupied by the amino acid coded by the

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corresponding codon in any of the alternative forms shown in the Table.

Variant genes can be expressed in an expression vector in which a variant gene is operably linked to a native or
5 other promoter. Usually, the promoter is a eukaryotic promoter for expression in a mammalian cell. The transcription regulation sequences typically include a heterologous promoter and optionally an enhancer which is recognized by the host. The selection of an appropriate
10 promoter, for example trp, lac, phage promoters, glycolytic enzyme promoters and tRNA promoters, depends on the host selected. Commercially available expression vectors can be used. Vectors can include host-recognized replication systems, amplifiable genes, selectable markers, host
15 sequences useful for insertion into the host genome, and the like.

The means of introducing the expression construct into a host cell varies depending upon the particular construction and the target host. Suitable means include
20 fusion, conjugation, transfection, transduction, electroporation or injection, as described in Sambrook, *supra*. A wide variety of host cells can be employed for expression of the variant gene, both prokaryotic and eukaryotic. Suitable host cells include bacteria such as
25 *E. coli*, yeast, filamentous fungi, insect cells, mammalian cells, typically immortalized, e.g., mouse, CHO, human and monkey cell lines and derivatives thereof. Preferred host cells are able to process the variant gene product to produce an appropriate mature polypeptide. Processing
30 includes glycosylation, ubiquitination, disulfide bond formation, general post-translational modification, and the like.

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The protein may be isolated by conventional means of protein biochemistry and purification to obtain a substantially pure product, i.e., 80, 95 or 99% free of cell component contaminants, as described in Jacoby, 5 *Methods in Enzymology* Volume 104, Academic Press, New York (1984); Scopes, *Protein Purification, Principles and Practice*, 2nd Edition, Springer-Verlag, New York (1987); and Deutscher (ed), *Guide to Protein Purification, Methods in Enzymology*, Vol. 182 (1990). If the protein is 10 secreted, it can be isolated from the supernatant in which the host cell is grown. If not secreted, the protein can be isolated from a lysate of the host cells.

The invention further provides transgenic nonhuman animals capable of expressing an exogenous variant gene 15 and/or having one or both alleles of an endogenous variant gene inactivated. Expression of an exogenous variant gene is usually achieved by operably linking the gene to a promoter and optionally an enhancer, and microinjecting the construct into a zygote. See Hogan et al., "Manipulating 20 the Mouse Embryo, A Laboratory Manual," Cold Spring Harbor Laboratory. Inactivation of endogenous variant genes can be achieved by forming a transgene in which a cloned variant gene is inactivated by insertion of a positive selection marker. See Capecchi, *Science* 244, 1288-1292 25 (1989). The transgene is then introduced into an embryonic stem cell, where it undergoes homologous recombination with an endogenous variant gene. Mice and other rodents are preferred animals. Such animals provide useful drug screening systems.

30 In addition to substantially full-length polypeptides expressed by variant genes, the present invention includes biologically active fragments of the polypeptides, or analogs thereof, including organic molecules which simulate

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the interactions of the peptides. Biologically active fragments include any portion of the full-length polypeptide which confers a biological function on the variant gene product, including ligand binding, and
5 antibody binding. Ligand binding includes binding by nucleic acids, proteins or polypeptides, small biologically active molecules, or large cellular structures.

Polyclonal and/or monoclonal antibodies that specifically bind to variant gene products but not to
10 corresponding prototypical gene products are also provided. Antibodies can be made by injecting mice or other animals with the variant gene product or synthetic peptide fragments thereof. Monoclonal antibodies are screened as are described, for example, in Harlow & Lane, *Antibodies, A*
15 *Laboratory Manual*, Cold Spring Harbor Press, New York (1988); Goding, *Monoclonal antibodies, Principles and Practice* (2d ed.) Academic Press, New York (1986). Monoclonal antibodies are tested for specific immunoreactivity with a variant gene product and lack of
20 immunoreactivity to the corresponding prototypical gene product. These antibodies are useful in diagnostic assays for detection of the variant form, or as an active ingredient in a pharmaceutical composition.

V. Kits

25 The invention further provides kits comprising at least one allele-specific oligonucleotide as described above. Often, the kits contain one or more pairs of allele-specific oligonucleotides hybridizing to different forms of a polymorphism. In some kits, the allele-specific
30 oligonucleotides are provided immobilized to a substrate. For example, the same substrate can comprise allele-specific oligonucleotide probes for detecting at least 10,

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100 or all of the polymorphisms shown in the Table. Optional additional components of the kit include, for example, restriction enzymes, reverse-transcriptase or polymerase, the substrate nucleoside triphosphates, means
5 used to label (for example, an avidin-enzyme conjugate and enzyme substrate and chromogen if the label is biotin), and the appropriate buffers for reverse transcription, PCR, or hybridization reactions. Usually, the kit also contains instructions for carrying out the methods.

10 The following Examples are offered for the purpose of illustrating the present invention and are not to be construed to limit the scope of this invention. The teachings of all references cited herein are hereby incorporated herein by reference.

15 EXAMPLES

The polymorphisms shown in the Table were identified by resequencing of target sequences from three to ten unrelated individuals of diverse ethnic and geographic backgrounds by hybridization to probes immobilized to
20 microfabricated arrays or conventional sequencing. The strategy and principles for design and use of such arrays are generally described in WO 95/11995. The strategy provides arrays of probes for analysis of target sequences showing a high degree of sequence identity to the reference
25 sequences of the fragments shown in the Table, column 1. The reference sequences were sequence-tagged sites (STSs) developed in the course of the Human Genome Project (see, e.g., *Science* 270, 1945-1954 (1995); *Nature* 380, 152-154 (1996)). Most STS's ranged from 100 bp to 300 bp in size.

30 A typical probe array used in this analysis has two groups of four sets of probes that respectively tile both strands of a reference sequence. A first probe set

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comprises a plurality of probes exhibiting perfect complementarily with one of the reference sequences. Each probe in the first probe set has an interrogation position that corresponds to a nucleotide in the reference sequence.

5 That is, the interrogation position is aligned with the corresponding nucleotide in the reference sequence, when the probe and reference sequence are aligned to maximize complementarily between the two. For each probe in the first set, there are three corresponding probes from three

10 additional probe sets. Thus, there are four probes corresponding to each nucleotide in the reference sequence. The probes from the three additional probe sets are identical to the corresponding probe from the first probe set except at the interrogation position, which occurs in

15 the same position in each of the four corresponding probes from the four probe sets, and is occupied by a different nucleotide in the four probe sets. In the present analysis, probes were 25 nucleotides long. Arrays tiled for multiple different references sequences were included

20 on the same substrate.

Multiple target sequences from an individual were amplified from human genomic DNA using primers for the fragments indicated in the listed Web sites. The amplified target sequences were fluorescently labelled during or

25 after PCR. The labelled target sequences were hybridized with a substrate bearing immobilized arrays of probes. The amount of label bound to probes was measured. Analysis of the pattern of label revealed the nature and position of differences between the target and reference sequence. For

30 example, comparison of the intensities of four corresponding probes reveals the identity of a corresponding nucleotide in the target sequences aligned with the interrogation position of the probes. The

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corresponding nucleotide is the complement of the nucleotide occupying the interrogation position of the probe showing the highest intensity (see WO 95/11995). The existence of a polymorphism is also manifested by

5 differences in normalized hybridization intensities of probes flanking the polymorphism when the probes hybridized to corresponding targets from different individuals. For example, relative loss of hybridization intensity in a "footprint" of probes flanking a polymorphism signals a

10 difference between the target and reference (i.e., a polymorphism) (see EP 717,113). Additionally, hybridization intensities for corresponding targets from different individuals can be classified into groups or clusters suggested by the data, not defined *a priori*, such

15 that isolates in a give cluster tend to be similar and isolates in different clusters tend to be dissimilar. Hybridizations to samples from different individuals were performed separately. The Table summarizes the data obtained for target sequences in comparison with a

20 reference sequence for the individuals tested.

From the foregoing, it is apparent that the invention includes a number of general uses that can be expressed concisely as follows. The invention provides for the use of any of the nucleic acid segments described above in the

25 diagnosis or monitoring of diseases, such as cancer, inflammation, heart disease, diseases of the CNS, and susceptibility to infection by microorganisms. The invention further provides for the use of any of the nucleic acid segments in the manufacture of a medicament

30 for the treatment or prophylaxis of such diseases. The invention further provides for the use of any of the DNA segments as a pharmaceutical.

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All publications and patent applications cited above are incorporated by reference in their entirety for all purposes to the same extent as if each individual publication or patent application were specifically and
5 individually indicated to be so incorporated by reference.

1	2	3	4	5	6	7
						TGTGAACTCCACTTGAAGCCAAAGAAAGAACTACACCTTAAACACATGCCAGTTGGGAAGGCTCT GAAAACTCAGTGCATAATAGGAACACTTGAGACTAATGAAAGAGAGAGTTGAGACCAATCTTTATTT GTACTGGCCAAATACTGAATAAACAGTTGAAGGAAAGACATTGGAAGAGCTTTTGAGGATAATGT TACTAGACTTTATGCCATGGTGTTC/TAAGTTTAAATGCTGTCTCTGTCTCAG
WI-7070	226	CT	---	---	---	AAGCCATTGACGTAACTCAGAGGTTATTTGCATGGATTGACTCTCTGGGACAAAAGGAC[G/C]AA AAACACTCTTCTGTGGATATCTGTGCAGATAGTACCCAAAGATCAGATGCTACCCAGATGTGTTTT GATAATACATAAGCCCTAGGATTTAGATACAATCTTGAAGAAACTGAGACAGATAATCTCTGAATTT AAATGAGGTAAGTTTCAGGCACTCA
WI-10744	61	GC	---	---	---	GGGCAAAATACCAGCAAAAAGTCAAATACCAGCATCAAAGTCAGTGCAAAAGGAGGTAGAACAA TTACAGTAACATATGTCATCTTTTGTATATTAGTATTATCTGCCAATGCTTCCAGTAAATC/TTAGTG GGTCCCTAATAGTTATTAGTTCCCTTTTCTCCCTCTTCTCAATCTCTGAAATTTATTTTATACTTAA GGGATTAGTTACCACCAAAATGIGTATGATCAATTTGATCTTACTGAA
WI-9975	126	CT	---	---	---	GCTAGGTTTTGTTCTGTGGCTGCTTCACTAGACTTGAGATGACTTGATTTACAGTAATCCCTATGT GATGTAACATAGTCTAGACCTTCCCTTCTCCGCAATTCAGCTCCAGTTTCAGAAAGTATGCCACAC TCAACCTTCTCTCCAGTTCATCCTGTATTAATTTCTCCCATATTAATTCAAAGGGAGTGGACAGGT CCCTGGCTGAAAAGAAATAAGAGATCCCAAGTGGTGGGG[G/T]CTT
WI-8010	247	GT	---	---	---	GCCCGGCTATCTTTAAATTTAACTTGATCTTTGGTGTCTTCCATCTCTAGGATTCTGCCTTATAAT CTTTGTCTGTCTGTGA[G/C]ATTAACCTGATTCTACTTTTGTATACACAAGGCTGATGGCTCACAATGT AGTAGTGCCTAATCTTCAGGTCTCTTTGAATTTTCTGCTATTGAGGACATTTCCACTTTCTACTTA TCTCGACTCTATAACAACCTCCAACAGAA
WI-5222b	85	GC	---	---	---	GCCCGGCTATCTTTAAATTTAACTTGATCTTTGGTGTCTTCCATCTCTA[G/C]GATTCTGCCTTAT AATCTTTGTCTGTCTGTAGATTACCTGATTCTACTTTTGTATACACAAGGCTGATGGCTCACAATGT AGTAGTGCCTAATCTTCAGGTCTCTTTGAATTTTCTGCTATTGAGGACATTTCCACTTTCTACTTA TCTCGACTCTATAACAACCTCCAACAGAA
WI-5222	52	GC	---	---	---	TATGCACCTCCACAAAAGCGATATAATTTAAAAGTTTTTTCATTAGAAATAATGTATAAAAATAA ATATGTTATTATAGGCATTTATTACTAATACTATAGTCTTCTTGGAGGAACACCCAAACCAATACTT ATAAGTACATGTAAATTTATGTAACATATTTACTATATACATATGGAAGAAATCATATTTCTCACA GAAGAGCTGAACAGACATTCACCAGGATACGACTGTGGAC[C/A]AGCTGCTG
WI-8007	242	CA	---	---	---	TCAGTTGCAAAAAATGCTGCCATAAACATGCTTTGCTTATCTCTGTGCATATGTATGTTTTGTTAG TCTATATTCACACATATGAGTGAAATTT[C/T]GGGGCATGGGAAATACATCTTTATGAGACATTTGA ACTGCTCACCACATATCATAGTATCCATTTAAACAGACCAACAATGTATAAGAAATCCCTTTGTTTTAC ATGCTTTCCAATCTGATTTTGTATGACTATTGTATGCACAGTTGGATCACC
WI-9823	97	CT	---	---	---	

WI-9651b	105 A T ---			TCTACATTCTATGGACAACCTCCATGCCCTTTCACATGCTGATCCCTCCTCCTGGAATTCCTTCCT ACTTGCTCCTCATGTACAATTTTCTGCTCGTCTTCA/JATGGGCGAGCTTGCAGCCTCCCTTTAGAC ACCTCTACAGGTACAGCCGACCATGCCCTACCTCCATGCCACTGCCAGGGACCCCTTATAGGCCTCTG TCTTAAACCTGTATGGTATATTAATCCCTGGGTGTTGAATGCTCTC
WI-9651	139 T C ---			TCTACATTCTATGGACAACCTCCATGCCCTTTCACATGCTGATCCCTCCTCCTGGAATTCCTTCCT ACTTGCTCCTCATGTACAATTTTCTGCTCGTCTTCAAGGGGAGCTTGAAGCCTCCCTTTAGACACCT CT/JACAGGTACAGCCGACCATGCCCTACCTCCATGCCACTGCCAGGGACCCCTTATAGGCCTCTGT CTTAAACCTGTATGGTATATTAATCCCTGGGTGTTGAATGCTCTC
WI-7676b	309 A C ---			GTGACCTTCTGCAGCGTGAGATGGACATCCTTGTCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCCAAGGTAGATGGGAGGCTGTGTGAAGGG GCCGGCTTCTTGGTGCTGCTGGGTTCAGGGGCGAGGAGCGTGTGGACTGCAGCTTCTGCTGCTG TCCCCCGTCTCCTGGAGGCGATATAGGAGAGAGAGCAAGGATTGAGT
WI-7676	139 C T ---			GTGACCTTCTGCAGCGTGAGATGGACATCCTTGTCTGGGACTTGGCCCTGCTATTTATTTTG TATTTATGCTTAATCTCTCCACTGATGCATCCTCCAAGGTAGATGGGAGGCTGTGTGAAGGG GC/JGGCTTCTTGGTGCTGCTGGGTTCAGGGGCGAGGAGCGTGTGGACTGCAGCTTCTGCTG GTCTCCCCCGTCTCCTGGAGGCGATATAGGAGAGAGAGCAAGGATT
WI-10072	105 G A ---			CATTATCTTGCTTGGGCTGTGTTCACTTCTCTCTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT CATCTGGCCCTTTTGTAGTTTGAATAATTTTGTG/JATGACTCCTATGCACATGATAAATTTGTTA TGCTTGCTCTATCTATCTTTTGTATAGGAGTTTGGCCATGACCCCTTTATGAGGAGAAAAAGGA TGACCCCTTTTGGCTCTACAACCTTATAGATAATTTAAATATCTTT
WI-9986	42 T C ---			TTGGTGTGAACCTCAGAAATATAGGGAATAAGACAATTTGAAT/A,CJGTACCCCGAGGAACAAGAG CCCTGCACCTGACTCCAAAGGAGTTCTATTATCTGGCTGTTCCAGACTTTATGTATCTTGAGAA GAGAACTGTTTCCCTCTAAATCAGTTTCATCTGTATCCAGGTAGTACTCACAAGAACAATGTCA ATATCAATAGCATGCATATGGGTGTTGGATTCTTAGAACCTATTGCAAT
WI-7041	174 C A ---			GTCTATTGCAGGAGAAACGTCCCTTGGCACTCCCACTCTCATCAGGCCAAGTGAGGACTGGCCAGA GGGCTGCACATGCAAACTCCAGTCCCTGCCTTCAGAGAGCTGAAAAGGTCCTCGGCTTTTATTT CAGGCTTTCATGCGCTCTATCCCCCTCTGCTCTC/JCCACCTTCTTTGGAGCAAGGAGATGC AGCTGATTGTGTAAACAGCTCATTTGTACAGTGTCTTTCATGTAATAA
WI-7224	134 T C ---			ATAAACCTTGTGTATGATCACCACCACTCACTAATTAATCACTTATGTCTATCAGATATCCTCTCT ACCTCAGCTTATTTGAAGAAAAATCCTAAACATCAAAATACCTTCATCCATAAAATGTGAGCATTT /CJATTAATAAACAAATAACTTTTAAAGAAACATAAGGACACATTTTCAAAATTAATAAAAAAAG GCATTTAAGGATGGCTGTGATTATCTTGGGAAGCAGAGTGATCATGCTAG

WI-10826	132	A C ---	---	TCTATTTCACAGTAGCCCCATGAAGTAGGATAAACAGCCTCTATTTAACATGAGAAGAT GGAGGCCCTTTCCAAATGGACTAAGTAATGTGTCTCAGGTTTCCCTAATAAGCAAAGACCTGCA/AC JCCCTGGCTTCTGACTCCAAAGCTTATCCCTTCTCATGCTGTTGCTGTCAGCCAGGACCCCATGGCA GAAAGCCCGCCTCTCCATCCCCAC
TIGR- A004S25	145	G A ---	---	AGATCTGCCATTAGTATTATTCCTTTGAAGATACCTTTGGAGATTCAATTTCTTGAGTGGCACTGCAT GCTCAATTCAGTGAAGAACTTGTGGGTATAGAAATGGAATGGAGAGTTTCAAACAGCTTTGCTGAAAC TGACTTTGG[G/A]CTCCAGACTTCACTGTCTTAGGCATTGAAACCATCACCTGGTTTGCACTTTC ATGACTGAGGTTAACTTAAATGACTGAGGTTAACTTAAAC
WI-1021	24	A T --	---	AAACACACAGAAATCATCAAGCAC/ATJATCTGTGTTTGAGATAAATGATGCTGAGTCACCTATG TAAGAAGTAACCTGAAATAGTAGGATAGTATTATCAATTTCTGTAAATAGATTCACCTCTCAGCAAT TGGTCTGTTTCACTCTATGGAACCTCTCCGTACTGTAATTTTCAATCTATGGAACCTCCCCATACTGT AATTGGACAGTTTGGTTCCAC
WI-4687	121	G T ---	---	TAGTATGTCACCTGCCATGGTAAGGACTTTGATCACTAGGAAATAAGAACACTTTGAATGGTCTGTCC TTTCAATAAAGAGATGACATGATTGAACATGTGTTTATAGATAAAGGGCACCTT[G/T]GCAGGAGTGT TAGGATGAAGAGAGAGAGATTAAGGAAGATCAGGAAGAAAGTAGCAATGGGAATGAAATAG GAGGCCCTGAGATCCACTGGATAATCTAAAAACCAAGAGAAAGAACTTGAT
WI-4719b	107	T G ---	---	TTCAATTCCTTCCAAATCCTTAGGAAATTTACATTATGGCTAGTGTCTTGGGTGTGAGCGGATT ATGCTGACGCCATGGGTGTTTCATAAGTGACTTGAGAGTT[G/ACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGATTTCATTCAACAATTCGTCTATGCTCTCAGATTGCAGAAAAATCAC TGCTCAAAATTCGCCACTTGTCAACTTATCCTTAAGACATTTTTCACAGGA
WI-4719	70	G A ---	---	TTCAATTCCTTCCAAATCCTTAGGAAATTTACATTATGGCTAGTGTCTTGGGTGTGAGCGGATT AT[G/A]CTGACGCCATGGGTGTTTCATAAGTGACTTGAGAGTTACTGTAGAGGCTACACAGAAATCT CTGTGAGGGGCATGTAATTGATTTCATTCAACAATTCGTCTATGCTCTCAGATTGCAGAAAAATCAC TGCTCAAAATTCGCCACTTGTCAACTTATCCTTAAGACATTTTTCACAGGA
WI-9484b	216	G C ---	---	TCAACACGCTTTTATGCCACTTCTGGCTCCCTCGTCCCAGCAAGATTCTACCTTTACCOCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACTTCTCTCTGCACACTGCCAAAGT TAAAGAAAAACCTGCTTGTGTGAGAGGGAGGGCCAGACAGGAGGAATTCAGGGGCATGTATGGCTC AGTCCCACTTCT[G/C]ACTGCAGAGTATAGGGACCAGGGTTCCTCAAACTTT
WI-9484	178	G A ---	---	TCAACACGCTTTTATGCCACTTCTGGCTCCCTCGTCCCAGCAAGATTCTACCTTTACCOCTGTAGG AATACTGAGCTCCGATGCAGGGGAATGGGTGGGGTGTACCACTTCTCTCTGCACACTGCCAAAGT TAAAGAAAAACCTGCTTGTGTGAGAGGGAGGGCCAGACAGG[G/A]AGGAAATTCAGGGGCATGTATG GCTCAGTCCCACCTCTGACTGCAGAGTATAGGGACCAGGGTTCCTCAAACTTT

WI-7330	207	C T	---	---	AGGATGGAAGGAGACACGGGAGGAGAACTCTCTTCTGCTAAATCGATAGGAGTCAGTTTGTCT TAAATGCTGACTACAGCCACTGACATGGTTGGCTGGAATTTCTTCTTTAATTTGGCATATAGGTTT GTGACACAAGAAGTCATCTTTGGTGGCTAAGTTTACTAAGGAAATAAATGAAAGATTTAAAG TGAGAG[C]TTGAAAGAGAAATGATAATGCTTCCAACTGTAGCTGTACAG
WI-9443	211	G A	---	---	TTAAACAGTTACAGTTGGTGAAGCAGAAAGGGATGTGATTACAAATTTAAATGAATCAGTCACIT GCACAAATTAATCCTTTGGCATACAAACTGGTTTAAATGGCAATGATGACATCATAGCATGA CCAACTCATGGAAGGAGTCTAGAGTCCATCAGCTCAGACCTGAGGGGAAAGGCACTGCACCCA CTGACGAGAC[G]A[CAGAGACCTTGGACTACAGATGACACCACATGCCACIT
WI-7166	59	C T	---	---	TCTCTAAAGAGAAACAAACCCCTAAGAGACTGAGTTCTGCAAGCATCAGTTCTA[C]TGGAT CATCAACAAGATTTCTTTGTGCAAAATATTTGACTATTCTGTATCTTTCATCCTTGACTAAATTCGTG ATTTCAAGCAGCATCTCTGGTTAAACTTGTGCTGTGAACAAATGTCGAAAGAGTCTTCCAAT TAATGCTTTTTATATCTAGGCTACCTGTGGTTAGATTCAAGGCCCCGAG
WI-7259b	189	T C	---	---	GCTTCTTCCCAGGAAGCGGGTCTTGGCTGGAACCTTCCAGAGAGGCGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTTCTCTCTCTGAGTTCTCTGGGT GCGCAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAGT[C]TGGGGGAGCAG AGCCAGCAGGTGGACAGGTGTTGAGGGGCCCAACTTCCCTGGAGCTC
WI-7259	188	G T	---	---	GCTTCTTCCCAGGAAGCGGGTCTTGGCTGGAACCTTCCAGAGAGGCGGGAGCAATTTAGCC CCACCTGTCTCCATCTGCCCCCTGCAACAGCTGAGGCTGCTTCTCTCTCTGAGTTCTCTGGGT GCGCAGGCTCCCTGGGAATAGAGCAAGACGTGAGTCTAACCTGGCCACAGT[C]TGGGGGAGCA GAGCCAGCAGGTGGACAGGTGTTGAGGGGCCCAACTTCCCTGGAGC
WI-7322	275	A G	---	---	GTACTTTAGGCCTGTGAGGGTGGCATTTAGTGTGACCTTGACCCAGGGTTTCTAACAGATGAC CCTGTGAATCATAATTTAAACCTGCATATATTTATAGCCAGTCACATTTGCCCTCTCACCTATATG GCCATAAAGTGCCTAAGCACTCAGGCCTCCCACTCATCAACCCCTTTGACCCAGAGAAAGCACTC TGGTTCTCTATCCCTTGTACATAGAGATTTGTGATGGGCCCTCTGGCTG
WI-7685	46	T C	---	---	TCAGTTCTAGTCTCTGCGGCCACACAGAACTCTTTTGGGCTCTTCTTCTCCCTCTGGATCA AAGTAGGCAGGACCATGGGACCAGGCTTGGAGCTGAGCCTCTCACCTGTACTCTCCGAAAAATCCT CTTCTCTGAGGCTGGATCCTAGCCTTATCCTCTGATCTCCATGGCTCCTCCTCCTCCTGCGGACTC CTGGGTTGAGCTGTTCCTCAGTCCCCCAACAGATGCTTTCTGTCTC
WI-563	87	G A	---	---	TGTGACCAATTGTTATTTAGAGGGTTTAAACATGGCCTGACTATCACCTGATGGTCGCCAGATTTTC CTGGGGAGGGCCTCCCTTGAJCCCTGATCATGTCTACCTAACCTGCTACTCTAACATACTACTCC TGTGGTATGGGGATCCTAAGCCAAAAGCTGAAATGAACATGTTCTAGCACTACAGAAATCCATACT GCCCTCAGTAAAGGCAAAATTTAAATCTCTTTGGATAACCCAGGGCACAT

WI-931c	191	C A ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGCACACCCCTGGAGTT TCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGTCTTATCTGTGTGTCACAAATGATCCTTCT GTTGCTGCACTGTCTACTTGTGTATGGATTTAATAATTATGTCCAAAAAGCC[C]A]CGAGCCTGG TACAGAAAGGCATGGGAAAGATGTGTGAGA
WI-931b	81	A G ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCACAGCCACTAGCCCTGAACCTTGCACACCCCTGGAGTT TCTCTCCCTCCCTA/G]TCCCTCACCACACCTTCCAGTGTCTTATCTGTGTGTCACAAATGATCCT TCTGTTGCTGCACTGTCTACTTGTGTATGGATTTAATAATTATGTCCAAAAAGCCCGAGCCTGG TACAGAAAGGCATGGGAAAGATGTGTGAGA
WI-931	31	A G ---	---	GACCAGGGCACCAGAAAGCCACGGAAGCCAC[G]GCCACTAGCCCTGAACCTTGCACACCCCTGGA GTTTCTCTCCCTCCCTATCCCTCACCACACCTTCCAGTGTCTTATCTGTGTGTCACAAATGATCCT TCTGTTGCTGCACTGTCTACTTGTGTATGGATTTAATAATTATGTCCAAAAAGCCCGAGCCTGG TACAGAAAGGCATGGGAAAGATGTGTGAGA
WI-10870b	91	C T ---	---	GGATGACTTACCCAATAGCAGGGTGGGTACATTCATGGGTAACAACACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAAGTGGG[C]T]ACCTACTTAGAGCAGTGGAGTACCCCTGAGTACGACCCCC TTAGCAGCAGAAATTACAAGAAATCTTGGACCTGTACTCTGATACAAAATAAGGACATGGGTGAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-10870	103	G A ---	---	GGATGACTTACCCAATAGCAGGGTGGGTACATTCATGGGTAACAACACCCCTGGACTGGGATGGCAGA GACATCCACCTTAGCAAAAGTGGGACCTACTTAGA[G]A]CAGTGGAGTACCCCTGAGTACGACCCCC TTAGCAGCAGAAATTACAAGAAATCTTGGACCTGTACTCTGATACAAAATAAGGACATGGGTGAGC CTGAGCCACTCTTAAACCATGAACCATCACCATTTAAATAACGTTGCCCCCCC
WI-7719b	281	T C ---	---	AGTTTATTTCTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCCATTAGATCAAGACTACACGGTCTATGAGCAATAATGTG ATTTCTGGACATTTGCCCATGTATAATCCTCAGTATTTCAAGCTAAAGCAA
WI-7719	163	A G ---	---	AGTTTATTTCTCCAGATGACCAGCAGTAGACAAATGGATACTGAGCAGAGTCTTAGGTAAAAGTCTT GGGAAATATTTGGGCATTTGGTCTGGCCAAGTCTACAATGTCCCAATATCAAGGACAACCCCTAGC TTCTTAGTGAAGACAATGTACAGTTATCC[G]T]TAGATCAAGACTACACGGTCTATGAGCAATAAT GTGATTTCTGGACATTTGCCCATGTATAATCCTCAGTATTTCAAGCTAAA
WI-10396	72	C A ---	---	GGCTTGGAGTATATCTAAACTGTGGCTCCACTTTCATTTTCTTGAACATTGCTATCAACTGGGAA GAGT[C]A]TGTGACTTTATGCCAGTTTCCCTCTCAGATTTTATGACGGTTGTTTCTTTTGTGA TGCCATTTGAGGGATTGATGTTTCTTAACTATGAAGTACTTGGCTGTCTCTCTCCATTGCTGTTGAGG TTAACAGCCACCATTGTGTAACACTTTGT

WI-10673	94 C	---	---	TCCCTTTATGACCCAAAGAGATATTTATTAACACCAATTAACGTAGCAGGCCATGGCTCATGGGACC CACCCCCCGTGGCACTCATGGAGGGG[C/G]TCAGGTTGGAACATATGCAGTGTCTCCGGCCACACA TCCTGCTGGGCCCTACCCTGCCCAATTCATCTCCTGCCAATAATCTGCTTATTTGTTTCATCCTG GAGAAITGAAGGGAGGTCAAGTTGTTTGCAATGATTTGTCAGAGAACCT
WI-7842	57 T C	---	---	CACAGCCATGCCCTTGAGGAGCCGCCACAGATGCTGAATCCCTATCCCATCTCTGTC/GTATGAG TCCCATTTGCCCTTGCAATTAGCATCTGCTCCCCCAAAAGAAATGTGCTATGAAGCTTTCTTTCCCT ACACACTCTGAGTCTCTGAATGAAGCTGAAGGTCTTAGTACCAGAGCTAGTTTTCAGCTGCTCAGAA TCATCTGAAGAGAGACTTAAGATGAAGCAATGATTCAGCTCCCTTATA
WI-7721	145 A C	---	---	CTGCTCATCAGCCACTGGAGTCCACACTTGAATTTGGGCAGCTACACGGGTCTGCCATGCTCTGG AGGACAAGGGGCCACATCCACCCAGCTGTACCCAGCCGGGCAGGTGCAGCCCTTCTCTCC TGCTCTG[C/A/G]CTGACTCTCTTTGAGGTCCTGTATGCTACCTCTGACTTCTGTGGTCCCTCTG TGCTGCTCATCCATCTCTACTGGGGCTGGGGCTTAGCCAA
WI-4767b	173 C A	---	---	TTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGAAATTCATAAAGAGTTCCCT CAGTCTGGGTAATCCTAGATCTTCTATATCCATTGAGTGTGATGGAGTTGGAGAGGGTATGTTT CTTGCTTGAGAAATCCTAGAAAGCACAGGGATGACA[C/A]AAATCACTAAGGAATTCCTACTAAGA CTCCTCTAACCCAGAGATTTTAACCT
WI-4767	50 A G	---	---	TTCCAGTCTGTTTTATCCTTTTCATTGTCAAAAAGATGCTCTTAGACTGA[A/G]ATTCAAAAGAGTT CCTCAGGTCTGGTAATCCTAGATCTTCTATATCCATTGAGTGTGATGGAGTTGGAGAGGGTATG TTCTTGCCCTTGAGAAATCCTAGAAAGCACAGGGATGACACAAATCACTAAGGAATTCCTACTAAGAC TCCTCTAACCCAGAGATTTTAACCT
WI-7718f	222 C T	---	---	ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGATG ACTTGCAGATGGAAGAGGTGAAATGAAGAAGGAGCTGTGTGAACACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAA[C/T]CATGCAGGAAGGAAAACTAIGTATTAA
WI-7718e	60 T C	---	---	ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGA[T/C]GCAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAAAATGAAGAAGGAGCTGTGTGAACACAGAAAAATAAGTC AAAAAGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAT
WI-7718d	31 G A	---	---	ATTGCACTGAAGTTTTTGAATACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAA GGATTACAGAACTGATGCCAAGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAAAATGAAGAAGGAGCTGTGTGAACACAGAAAAATAAGTC AAAAAGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAT

WI-7718c	91 C G ---	---	---	ATTGCACTGAAGTTTTTGAATAACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGG[C/G]TGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAG ATGACTTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAGTC AAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATTAAAT
WI-7718b	248 A G ---	---	---	ATTGCACTGAAGTTTTTGAATAACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGCAAGGA TTACAGAACTGATGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGATAGATG ACTTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAGTCAAA AGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATT[A/G]AT
WI-7718a	42 A T ---	---	---	ATTGCACTGAAGTTTTTGAATAACCTTTGTAGTTACTCAAGCAGTTACTCCCTACACTGATGC AAGGATTACAGAAACTGATGCCAAGGGGCTGAGTGAGTTCAACTACATGTTCTGGGGCCCGGAGAT AGATGACTTTGCAGATGGAAGAGGTGAAAATGAAGAAGGAGCTGTGTTGAAACAGAAAAATAAG TCAAAGGAACAAAAATTACAAAGAACCATGCAGGAAGGAAAACTATGTATT
WI-7227d	99 G C ---	---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCAGGCATCAATTAACAAGCCAGTAGGTACCTGGCTTC CGTGGACCAATTCATCTTTAGACAAGCTTTA[G/C]AGAAATGGACTCAGGGAAGAGACTCACATGC TTTGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGAGCTGAGCTAAACA GTGTTATTATGGGAAGGAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227c	291 G A ---	---	---	AGGGAATTGTTGCTCCTGGAGGAAGCCAGGCATCAATTAACAAGCCAGTAGGTACCTGGCTTC CGTGGACCAATTCATCTTTAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGAGCTGAGCTAAACA GTGTTATTATGGGAAGGAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227b	93 G T ---	---	---	AGGGAATTGTTGCTCCTGGAGG[A/G]AGCCCCAGGCATCAATTAACAAGCCAGTAGGTACCTGGC TTCCGTGGACCAATTCATCTTTAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGC TTTGTTAGTATCTGTGTTCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGAGCTGAGCTAAACA GTGTTATTATGGGAAGGAATGGCATTGCTGCTTTCAACCAGCGACTAATG
WI-7227a	24 A G ---	---	---	CCACAATGCCTCTCCACGATGTCAGGACTCCTGTCTGCTGAGGTGGAGACAAGAACCTCCG AAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGTGATCCTTCATCGAACAACTGATGCGAAACT TGAATCTGTTACTGAAATGAGGAGAGAGGACATGTGCTATTGACTGAGCCAAACACACTGTAAAT ATCCACAGACTCCCTCCCTGCCCTGCCCATCCCA[A/C]ATGATCTTGAGATTTC
WI-7310b	234 A C ---	---	---	

WI-7310a	64 T A ---	---	CCACAATGCCTCTCCACGATGTCAAGGACTCCTGTCTGTCTGGAGGTGGGAGACAAGGAACCTT/A JCCGAAGAGGAAGCAAGAAAGCCGTACTGTCTATGTTGATCCTTCATCGAACAACTGATGCGAA AACTTGAATCTGTTACTGAAATGAGGAGAGAAGACATGTCTATTGAACCTGAGGCCAAACACACTGT AAATATCCACAGACTCCCTCCCTGCCCCATCCCAATGATCTTGAGATTC
WI-7878b	162 A G ---	---	CCAGCAACACCTACACCTTGTACCTGCCTGGACTCCTATGATGGCTGCTGGTTGATAATAATCA GATATGCCCCAAGACGGCCCTCCTGATAATCGTCTTGGCATGATTGCAATGGAGGCAATGCGTCC CTGAGGAGAAATCTGGAGGAGCTG[A/G]GTGTGATGAAGGTGTATGTTGGAGGGAGCACAGTGT CTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGGTGAGGAAACTA
WI-7878a	51 C G ---	---	CCAGCAACACCTACACCTTGTACCTGCCTGGACTCCTATGATGGCTG[C/G]TGGTTGATAATAA TCAGATCATGCCAAGACGGCCCTCCTGATAATCGTCTTGGCATGATTGCAATGGAGGCAATGC GTCCCTGAGGAGAAATCTGGAGGAGCTGAGTGTGATGAAGTGTATGTTGGAGGGAGCACAGTG TCTGTGGGAGCCAGGAAGCTGCTACCCCAAGATTGGTGAGGAAACTA
WI-7381c	213 C T ---	---	CTCCACATTCACACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCCCTTTCTTTCTACC AGCCCTGCAAGTTTCTCATGGACGCTCGCAGGAGCAGGCTGCAGGTTCTCTGCCTATGTTGAGATC AGATGTGCCAAGGAAGAGCTCTGGTCCAGAGAATTTGCACAAAGTTCCCTCTGTACAGAGACA AAACGGCTC[C/T]GGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381b	54 C G ---	---	CTCCACATTCACACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCC[C/G]CTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGCAGGAGCAGGCTGCAGGTTCTCTGCCTATGTTGAG ATCAGATGTGCCAAGGAAGAGCTCTGGTCCAGAGAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-7381a	53 C G ---	---	CTCCACATTCACACAGGCCCTTGAGCAGAAATTTCTGAGACTGAAGGGAATCC[C/G]CTTTCTTTCT ACCAGCCCTGCAAGTTTCTCATGGACGCTCGCAGGAGCAGGCTGCAGGTTCTCTGCCTATGTTGAG ATCAGATGTGCCAAGGAAGAGCTCTGGTCCAGAGAATTTGCACAAAGTTCCCTCTGTACAGAG ACAAACGGCTCCGGCTCTCAGAGCATAATCCTTGGCAGGGCTCAGCAGG
WI-1017b	93 G A ---	---	AAATTGCTCTATTCCGACCCCTCATATTAAATAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAG[G/A]GATGTAGATTGTACATTCAATCCTGAAACAAACCTG CCAGGCAAGTCTTCTTCCCATTTACAAATAAGGAGACAAAAATTAGGAGATTAAATAACTCATCAC TGTTTTCAAAATAAGGAGTGTGAGGTTTGTCCC
WI-1017a	92 G A ---	---	AAATTGCTCTATTCCGACCCCTCATATTAAATAGAGCAATGAGAGCGAGGGAATTTGAACCTCTCTC AGGTACTGACTGTGGGACCAGACAAG[G/A]GGATGTAGATTGTACATTCAATCCTGAAACAAACCTG CCAGGCAAGTCTTCTTCCCATTTACAAATAAGGAGACAAAAATTAGGAGATTAAATAACTCATCAC TGTTTTCAAAATAAGGAGTGTGAGGTTTGTCCC

WI-1795b	130	T C	---			GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTCTTCCAGACTCCTACGATTAAATTGTATGCTGAACAACACTGAGGTACTTAGATCTCAGTCTTGCAGAAAGAAAGTTCJGTCTACCATTTTACCAAATTCGTAGTACAATTAAGTATCTCTGTATCTCCTCCCTAGGAGTCTAAAGTGAGCTGGGAAGGCAGGATTT
WI-1795a	47	T C	---			GAAGCAACCAGAAAGTATCTTTATCCCATCTAGATTATGTCTGGGTTCJCTTCCAGACTCCTACGATTAATTTGTATGCTGAACAACACTGATGAGGTACTTAGATCTCAGTCTTGCAGAAAGAAAGTCTGTACCATTTTACCAAATTCGTAGTACAATTAAGTATCTCTGTATCTCCTCCCTAGGAGTCTAAAGTGAGCTGGGAAGGCAGGATTT
WI-10616d	136	G A	---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGTCCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTCTGGTCTCCTATCACATTGCCACJG/AJTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTCAGGGCCCCAGTCCCCCTCTGAGACTCCCATTGGATCAATTCCTGTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
WI-10616c	136	G A	---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGTCCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTCTGGTCTCCTATCACATTGCCACJG/AJTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTCAGGGCCCCAGTCCCCCTCTGAGACTCCCATTGGATCAATTCCTGTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
WI-10616b	141	C T	---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGTCCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTCTGGTCTCCTATCACATTGCCACGTAGCJCTCCCTTCCCTTCCCTACAGGCCCTCTCAGGGCCCCAGTCCCCCTCTGAGACTCCCATTGGATCAATTCCTGTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
WI-10616a	116	G C	---			CACACAAATTTGCAAAACACTTCAAAGTGAACGCCCGACATCATCAGCCCGTTAACGTCCAGGCCATGTCCCACATAGAGAACGCTTTACTTCCACGTCTCTCCATACGTAGGTCTGJCTCTCCTATCACATTGCCACGTAGCCCTCCCTTCCCTTCCCTACAGGCCCTCTCAGGGCCCCAGTCCCCCTCTGAGACTCCCATTGGATCAATTCCTGTTCTGTATCAGGCAGTGATTTAACTCCTTTTGT
WI-1126c	52	G A	---			CTCTTATTTCTCTGGGCACTGCTTTCTTTGGGGCAAACTCCAGTATCAGTJG/AJATACTAATAAANAACCCCTGTAAGTCTGCTTGCAATTTCAAGATTCATATATATCCAGATTGTTTCCCGCAAGAAATAATTTATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCCCTCAAAAGGAATATGAAATTTGTTAAATGCAAAATCCAGCTGTAACTTTTTTGGACTTGCTTTAATTCCT
WI-1126b	230	T C	---			CTCTTATTTCTCTGGGCACTGCTTTCTTTGGGGCAAACTCCAGTATCAGTATCAGTATATAAAAAACCCCTGTAAGTCTGCTTGCAATTTCAAGATTCATATATATCCAGATTGTTTCCCGCAAGAAATAATTTCTCAAGATATAAAAAATAAATAATTTAATTTCAAGTTTCCCTCAAAAGGAATATGAAATTTGTTAAATGCAAAATCCAGCTGTAACTTTTTJG/GGACTTGCTTTAATTCCT

WI-1126a	97 T C ---	---	CTCTATTCTCTGGGCACTGCTTTCTTTGGGGGCAAACTCCAGTATCACTGATACATAATAAAAA CCCTGTAAGTCTGCTTGCAATTTTCAAGATTTC/CAATATATATCCAGATTGTTTTCCAGCAAGAAA ATTTATTTCTCAAGATATAAAAAATAAATATTTAATTCAGTTTCTCAAAAGGAATATGAAATTT GTTAAATGCAATCCAGCTGTAACTTTTGGACTTGICITTTATTTCTT
WI-11183c	124 C T ---	---	TAGTGCTAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACITTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGCCCTTGTC/TTACTAACA TTATGACATACAAATGACCAAAAATGATGTTTTTATGAAGTGAGGATAGAGTTTTAAATATTGGT ATGTGGTGCTAGAGTTAGTAATGGAA
WI-11183b	192 T C ---	---	TAGTGCTAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACITTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGCCCTTGTCACATAACATTT ATGACATACAAATGACCAAAAATGATGTTTTTATGAAGTGAGGATAGAGTTTTAAATATTGGT ATGTGGTGCTAGAGTTAGTAATGGAA
WI-11183a	118 C T ---	---	TAGTGCTAATTTTGGAAAAGTTTGCTGATTTTAAAAATCTTTTAAACITTGAAAAATTTAGAGTAC ATATAAATAAAATAAGACCAGATAGGTATTAATTCAGATGATTTTGGC/TTCTTGTCACATAACA TTATGACATACAAATGACCAAAAATGATGTTTTTATGAAGTGAGGATAGAGTTTTAAATATTGGT ATGTGGTGCTAGAGTTAGTAATGGAA
WI-10770b	174 G A ---	---	GCTTGGTTTGCTTTAGTCTTATTGCTCAGTCTTGAGTTCTCCCTTTCTGCTGGCCCTTTTGATTTCA CCCATACCTCTATGCCCTGCTCAGACCATTTCTCTATCTGGAGGCTCTTCCCTTGACTTTCTCTG TTCACCAACCTTCTTTTATTTCTTCAGGACACTCA[G/A]TTCACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTCTTCCC
WI-10770a	49 G T ---	---	GCTTGGTTTGCTTTAGTCTTATTGCTCAGTCTTGAGTTCTCCCTTTCTG/TTCTGGCCCTTTTGATTT TCACCATACCTCTATGCCCTGCTCAGACCATTTCTCTATCTGGAGGCTCTTCCCTTGACTTTCTC CTGTTACCAACCTTCTTTTATTTCTTCAGGACACTCAGTTACATGCCACTCTCGTGACACTGTCTCT TTCACATCTTTCTGTGTCCTTCTTCCC
WI-9667b	82 C T ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTGCTCATGACACTTTTCAATCTCTGCTGTATCATGG TTATCACTGGACA[C/T]AGCCACCTCCCGCAGGCTTAGAACTCATGAGTAAGGACCCCTGTCTA ATGTGCCGTTTCTCTTATGGTATTACACACAGTCATAGGCATGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTGTAACCCAGTACCTAAGTCCAAACTTGCATTTCT
WI-9667a	68 G C ---	---	GATGACAACTTCTGCTGTGACCCCTTAGTCTGCTCATGACACTTTTCAATCTCTGCTGTATCATGI GCTTTATCACTGGACAGCCACCTCCCGCAGGCTTAGAACTCATGAGTAAGGACCCCTGTCTA ATGTGCCGTTTCTCTTATGGTATTACACACAGTCATAGGCATGTAGTCAACTAATGGATCTTGGCT GTTTAAACCTTTTCTGTAACCCAGTACCTAAGTCCAAACTTGCATTTCT

WI-10400d	189 A G ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAAGAAAGTAATTGCAATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGTTTAGCACACATGTAAAGCACTTACTAACACAAATATTTTATTCTAAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCAGTGGCCATGTAG TTTTTGGTTTCATTTACTTGCAAAATTTATTCAAAGGCGTTAATGCATTATG
WI-10400c	166 A C ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAAGAAAGTAATTGCAATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGTTTAGCACACATGTAAAGCACTTACTAACACAAATATTTTATTCTAAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTTCATTTACTTGCAAAATTTATTCAAAGGCGTTAATGCATTATG
WI-10400b	165 A G ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAAGAAAGTAATTGCAATTTTCAGACATCTGCTG GTTAACTGTTATAAGATGTTTAGCACACATGTAAAGCACTTACTAACACAAATATTTTATTCTAAATTTT TCCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCATGCCATGTAG TTTTTGGTTTCATTTACTTGCAAAATTTATTCAAAGGCGTTAATGCATTATG
WI-10400a	46 T C ---	---	ACATTTTATTAGCAAAACAAATCAGCAAAATAATAAGAAAGTAATTGCAATTTTCAGACATCT GCTGGTTAACTGTTATAAGATGTTTAGCACACATGTAAAGCACTTACTAACACAAATATTTTATTCTA ATTTTCTTCCCTTACCTTTACTCTCCCAACCAAAATAACGTAAGTACCTATGTCATGCCATGT AGTTTTTGGTTTCATTTACTTGCAAAATTTATTCAAAGGCGTTAATGCATTATG
WI-10809b	78 C T ---	---	AAAGGGCTACAAACTAAGGCCAAACCAATGAACGGTATAGGAGGGTAAATGCAAGGGGAGACCC CACCTCTACCAAC/CTTTAGAAAGGGCATTTCAGGCACATTCATGAGGCTTCATATACTGTTAG CAAAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTCCCAGTGATGAGGCCACA GTGAATATCCACCTAACGACCTTCTTGGATGATGACACATGACATAGGCTTAA
WI-10809a	33 C T ---	---	AAAGGGCTACAAACTAAGGCCAAACCAATGAAC/TTGGTATAAGGAGGGTAAATGCAAGGGGAGA CCCCACCTCTCACCACCTTAGAAAGGGCATTTCAGGCACATTCATGAGGCTTCATATACTGTTAGC AAACAAATGGAATGTATTAGCCCAAGGCAGGGTATGGACCAAAAGTCCCAGTGATGAGGCCACAG TGAATATCCACCTAACGACCTTCTTGGATGATGACACATGACATAGGCTTAA
WI-7038c	266 T C ---	---	CGAGCTTGGGATAAGCAAGGGGACCTTGGGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTTCCAGGAATGCTGGGCCCCCAGCCTGGCCAGAC AAGAAGACTGTGAGGAAGGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATTGAT CATTTTATATGAATAAAAAGATCCTGCAATTTATGGTGTAGTTCTGAGTCC
WI-7038b	140 A/C ---	---	CGAGCTTGGGATAAGCAAGGGGACCTTGGGCTCTCAGCTTCCCTGCCACATCCAGCTTGTGTCC CAATGAAATACTGAGATGCTGGGCTGTCTCTCCCTTCCAGGAATGCTGGGCCCCCAGCCTGGCCAGAC AAGA/CAGTGTGAGGAAGGGTCGGAGTCTGTAAACCAGCATACAGTTTGGCTTTTTCACATT GATCATTTTATATGAATAAAAAGATCCTGCAATTTATGGTGTAGTTCTGA

WI-7038a	31	G A	---	---	CGAGCTTGGGATAAAGCAAGGGGACCTTGGCG/AJCTCTCAGCTTCCCTGCCACATCCAGCTTGTG TCCCAATGAAATAGTACTGAGATGCTGGGCTGTCTCTCCCTCCAGGAATGCTGGGCCCCAGCTGGCCA GACAAGAAAGACTGTGAGGAAGGGTCGGAGTCTGTAACCAACAGCATACAGTTTGGCTTTTTCACATT GATCATTTTTATGAAATAAAAGATCCTGCAATTTATGGTGTAGTTCTGA
WI-3429b	64	G T	---	---	ATACGCTTCTGTCTGTCCACAGTGAACCAAGCAGCCAGGTGCCAGGGTCGGGCTCCACACA[G/T] CCCTCAGCCCCCTTCCAGCTTTGCAATGTGTCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATTTCCAGTCTCCTCTCCTGTGATTTGGATCTAGCAAGACCAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATTTCTTAAGACCAAGCACGGAGC
WI-3429a	62	C T	---	---	ATACGCTTCTGTCTGTCCACAGTGAACCAAGCAGCCAGGTGCCAGGGTCGGGCTCCACACA[C/T]AG CCCTCAGCCCCCTTCCAGCTTTGCAATGTGTCCATCGGTGACTCAGCACAGAGTTTCCAACCTCATGTGA CAAAAATACAGATTTCCAGTCTCCTCTCCTGTGATTTGGATCTAGCAAGACCAGACGGTCCCTAGAA TCCTGACTGTTAACAAGCACTCCAGGCAATTTCTTAAGACCAAGCACGGAGC
WI-6786c	151	G A	---	---	ATTTAGGACAGTGAAAAAGGGATTTATAATAAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAAAGGATAAAGAGTGAGTGACGGTGACCT GTGAGCCCCATTCTT[G/A]TGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTC TTTTGGCAGGGGACACTCCTTCTGGGTGCTCTATTGCTCAGTTTCATCAT
WI-6786b	111	A T	---	---	ATTTAGGACAGTGAAAAAGGGATTTATAATAAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAA[A/T]GGATAAAGAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTTGTGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTC TTTTGGCAGGGGACACTCCTTCTGGGTGCTCTATTGCTCAGTTTCATCAT
WI-6786a	106	A T	---	---	ATTTAGGACAGTGAAAAAGGGATTTATAATAAAATCTATGCCATCCAGGAGGTATGTGCAGT GTCCAGAACATCCTAGATGAAGTGGCTTCCCTTGGCGAA[A/T]GGATAAAGAGTGAGTGACGGTGA CCTGTGAGCCCCATTCTTGTGGGATAAGGTGTCCATTGTTCTTGGAGGGTGAAATGCCACATTC TTTTGGCAGGGGACACTCCTTCTGGGTGCTCTATTGCTCAGTTTCATCAT
WI-6711b	226	G T	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAATTGAATAAGTATGGGGAAGAAATCCCTCACCT ACTTCCAAAATCCCTTACATATCAATTTACACAAAGCCCTAAACCTTCAGTTCCAATCACTCTGAAT TTCATATACCTCCATTATTAAATTCATATACATCATTCAGAGAGAAAAGACAAACGGTGCCAACTGGGT TGGTTGGTGCCTGCACACCCACA[G/T]TGGCAACTAAGTGAATCTCTAAA
WI-6711a	36	T C	---	---	GGCTATTTGTAATGCTTGGTTATTTGACTCCAAAAT[C/T]GAATAAGTATGGGGAAGAAATCCCTC ACCTACTTCCAAATCCCTTACATATCAATTTACACAAAGCCCTAAACCTTCAGTTCCAATCACTCT GAATTCATATACCTCCATTATTAAATTCATATACATCATTCAGAGAGAAAAGACAAACGGTGCCAACTG GGTTTGGTGGTGCCTGCACACCCACAGTGGCACTAAGTGAATCTCTAAA

WI-10613b	172 A C ---			ATTGATGCCAAATCATAATACCCCTGCATTCTAGAAACATACAGTGTAAATAGAATTTTGAGCCATA TGGTGAAAAATTTAGAAGTATTATCTCTATATGTATATACTACGTTTAAACATCAATGAATGTGATTT TTTGCAACTTTTGACAAGGCCAGGCAATTTTATTTGAC/GC/CCCTAGGAGGTTACTATAATTTAGA AAGGCTCTACCTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-10613a	44 G A ---			ATTGTATGCCAAATCATAATACCCCTGCATTCTAGAAACATACA[G/A]TGTAAATAGAATTTTGAGCC ATATGGTGAAAAATTTAGAAGTATTATCTCTATATGTATATACTACGTTTAAACATCAATGAATGTG ATTTTGTCAACTTTTGACAAGGCCAGGCAATTTTATTTGAGCCCTAGGAGGTTACTATAATTTAG AAAGGCTCTACCTCCACTCTATAATTTAAGTCTCGGACTTAGGATGTAG
WI-7587c	133 A T ---			GCTCTAGTGGGAACCTCAGGTAGTCTCCGAAGATCTGTGCTTTCCAACAAGTGACTACCCTTGAAGC ACATCCCTCTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAA[A/ T]GGAATGAACCACTCCCTGCCATTCCTATAAGATATCCCAAGACCCAGGCAATTTTGCCCTCT TTCCACATGCCCCATATGCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-7587b	81 G A ---			GCTCTAGTGGGAACCTCAGGTAGTCTCCGAAGATCTGTGCTTTCCAACAAGTGACTACCCTTGAAGC ACATCCCTCTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAA AGGAATGAACCACTCCCTGCCATTCCTATAAGATATCCCAAGACCCAGGCAATTTTGCCCTCT TCCACATGCCCCATATGCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-7587a	28 C T ---			GCTCTAGTGGGAACCTCAGGTAGTCTCC[G/T]GAAGATCTGTGCTTTCCAACAAGTGACTACCCTTGA AGCACAATCCCTCTCTGGATCTGAAAGAGCCCTTGGCTCAGGGCGTCTTTTCCAGCCCTGAGGAA AGGAATGAACCACTCCCTGCCATTCCTATAAGATATCCCAAGACCCAGGCAATTTTGCCCTCT TCCACATGCCCCATATGCTGAGCCAACTGCACCTGGGGCTGCCCTC
WI-10681b	103 T A ---			ATGACTCAGGTGACAAAAGAGCATGTCCTAGACCCCATTGACTTACGCAAACTCAATCAGCCAACC ACAGAAAAGCTAAGACATCCTTTTAAAAAGCC[T/A]AAAGACAGCCATTTTAACTTAATTCG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAGAACTTCAAGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGCTTTGGAGAAGGAGGAGTGACGCTCTGTTAAAG
WI-10681a	41 A T ---			ATGACTCAGGTGACAAAAGAGCATGTCCTAGACCCCATTG[A/T]TACGCAAACTCAATCAGCCA ACCACAGAAAAGCTAAGACATCCTTTTAAAAAGCCCTAAAGACAGCCATTTTAACTTAATTCG TAGTTTATGATTTTCTCAAAATTTCCCAACACACAGAAAGAACTTCAAGTTAGGTTCTAATGTTA CCATTGCTAACACTATTGCTTTGGAGAAGGAGGAGTGACGCTCTGTTAAAG
WI-7222c	126 G T ---			GCCTCTCCTCAACTGTCCTGGACCAAGGCTAGGAAAGGCTGCTTGAGATGACTGTGGTCCCCCTT AGACTCCCTAAGCCGAGTGAGCTCAGGTGTACCCCTGTTCTCAAGTTGGGGATGGG[G/T]AATAA AGGAGGGGAATTCCTTTGAACAAGAAAGAACTGGGATAGTTATATTCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAGGTTGATTTTCAAGACTCGAATTCATTTT

WI-7222b	255	G A ---	---	---	GCCTCTCCTCAACTGCTCTGGACCCAAAGGCTAGGAAGGGCTGCTGAGATGACTGTGTGGTCCCCCCTT AGACTCCCTAAGCCGAGTGAGCTCAGGTGTCAACCCTGTTCTCAAGTTGGGGATGGGAATAAAGG AGGGGAATCCCTTGAACAAGAAGAACTGGGGATAGTTATATTCACCTGCCCTTGAAGCTTTAA GACAGTGATTTTGTGTAAGTTGTATTTCAAAGACTCGAATTCATTTTCTCA
WI-7222a	126	G T ---	---	---	GCCTCTCCTCAACTGCTCTGGACCCAAAGGCTAGGAAGGGCTGCTGAGATGACTGTGTGGTCCCCCCTT AGACTCCCTAAGCCGAGTGAGCTCAGGTGTCAACCCTGTTCTCAAGTTGGGGATGGG[G/TAATAA AGGAGGGGAATCCCTTGAACAAGAAGAACTGGGGATAGTTATATTCACCTGCCCTTGAAGCTT TAAGACAGTGATTTTGTGTAAGTTGTATTTCAAAGACTCGAATTCATTTT
WI-8054d	41	C A ---	---	---	AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTC[A/ATTATCTCTCCAGTTCAAATG CTTGCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGGCTCAAGCACTCAAGCCTTAGCA CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCTGTCTAATACGCCGCTTTCCTGGCGGTACAGAGAAATCCTTGGCCCTT
WI-8054c	237	G T ---	---	---	AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGGCTCAAGCACTCAAGCCTTAGCAAA TCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCTCC TGTCATAACGCCGCTTTCCTGGCGGTACAGAG[G/TAATCCTTGGCCCTT
WI-8054b	148	T C ---	---	---	AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGGCTCAAGCACTCAAGCCTTAGCAAA TCTCTTTGTAGT[C/TTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCTGTCTAATACGCCGCTTTCCTGGCGGTACAGAGAAATCCTTGGCCCTT
WI-8054a	131	C G ---	---	---	AAAGATGACACTTAGAACTGGATCAGTTGGCCCTTCTCTTCTTATCTCTCCAGTTCAAATGCTT GCATCTTTAATAGCCAGCATCTCTTAGATCTGCAGTTGGGCTCAAGCACTCAAGCCTTAG[C/GJA CAATCTCTTTGTAGTTTAGCCCTTTTCCGGAAATCGGCTTAGTTTGGCCACCATAGCCACTCTGCT TCTGTCTAATACGCCGCTTTCCTGGCGGTACAGAGAAATCCTTGGCCCTT
WI-10854b	152	G T ---	---	---	TTCCACAAAAACTTCCCTGGCCGGGTGACTAAGATGAGAAGTGGGAGAACTGGATAGTTTAATAA ATGTTTATATTTACTTTAAGCGAAGTTGAAACACGAGACGATAGTTAACGCTCTGGTAAGTTAT ACGGTGTGCGAGGCAACA[G/TTGGAGAGGTACGGGAATAGTTCTACTTCCCTTGTTTTATTCTTGTG TTTTAGACACAGGGTCTGCTGTGTG
WI-10854a	102	C T ---	---	---	TTCCACAAAAACTTCCCTGGCCGGGTGACTAAGATGAGAAGTGGGAGAACTGGATAGTTTAATAA ATGTTTATATTTACTTTAAGCGAAGTTGAAACA[C/TTGAAGACGATAGTTAACGCTCTGGTAAGTT TATACGGTGTGCGAGGCAACAGGGAGAGGTACGGGAATAGTTCTACTTCCCTTGTTTTATTCTTGTG TTTTAGACACAGGGTCTGCTGTGTG

WI-9826b	127	G A ---	---	---	AATTTTATGTGAAGGGTTAGCAAACTATGCCCCACAGGCCCATCTTAGCCATGCCTATTTTGTG TGCCTGATGGCTGTTGGTGTGTTTGACGCGATTGAGCCATTGTGACAGAGGCTGTATG/AGCCTT CAAGGCCAAAAAATAATTTACTCTCTGGCCTTGACGGGAAAGTTTGTGATTCTAGATATTTAAA GGCAGAGAAGATCAGAAAGTGTGAA
WI-9826	125	A T ---	---	---	AATTTTATGTGAAGGGTTAGCAAACTATGCCCCACAGGCCCATCTTAGCCATGCCTATTTTGTG TGCCTGATGGCTGTTGGTGTGTTTGACGCGATTGAGCCATTGTGACAGAGGCTGTAT/ATJGGCCTTC AAAGCCAAAAAATAATTTACTCTCTGGCCTTGACGGGAAAGTTTGTGATTCTAGATATTTAAAG GCAGAGAAGATCAGAAAGTGTGAA
WI-15986	60	T G	TTGTTTGTGT GTGGGTTTTT	TGACATTATAT AAACGTAAAA GAAAATGT	CGGACACGTTATATACAAATACAGATCGTATGGGTTTGTGTGGGTTTTTTTTT/GJTAC ATTTCTTTTACGTTTATATAATGTCAGCATTTCAA
WI-8655	29	A G A G	AACGCAAAAT AGGAAACCCAG	CCACCTGGGGC TOOC	TTCAAGTAAGTCAAATAGGAAACCCAGAG/AGJGGAGCCCCAGGTGGGACAAATCATGGCTACCCC TCCCAACAGAACAGGGGAGGAGGTGGCCCCCTACACCCTTTAT
WI-8170b	259	G A ---	---	---	GCACCTCTCTCTGAGCAACAGGTACACCTTTTTCTCTAACATTGATCTATAACACACAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CATTGGTGGAGAGATTACAAGGTTAAGATCATGTGCCATCAAAAGTGCAATCCTATCAATCAGAA ATAAAGGTAAAAGGGCCCCCTCAAATGAAATCTACGGAAAAACATAACACAAGA
WI-8170a	204	T A ---	---	---	GCACCTCTCTCTGAGCAACAGGTACACCTTTTTCTCTAACATTGATCTATAACACACAGAACCG TGTTTTAATAGCTGCTGATAAATGAACCTATTTTAAAGTACTCTACCAAGATGCTGTGGTAAGGTTAG CATTGGTGGAGAGATTACAAGGTTAAGATCATGTGCCATCAAAAGTGCAATCCTATCAATCAGAA A/T/AAAGGTAAAAGGGCCCCCTCAAATGAAATCTACGGAAAAACATAACAC
WI-8172	136	C G A C A	CCTTTATTAA ATTGTTTCTT GACA	GAAGAGAAAT GTAATACCTGT AAAGGTAC	CAGGATTCCTTAAGTCATCTTCCAATACTCCAGGTACATGGTGAAGAGTCACCTGTTAAACACGAA ATCTAACCATTAACAAGCTTTTAAATCCTTCGGTAACCTCCCTTATTAAAAATTGTTTCTTGACAT A/C/GIAGTACCTTTACAGGTATTACATTCTCTCACCGTTTACA
WI-8183	56	G A TGC	TGAAATAAAA ACAATTTCTGT	TGTGTTGAAAT CAACCTGC	AGCAGGGTTTGAAATTGATCCCTTATTTACATGAAATAAAAACAATTTCTGTTGC/G/AGCAGGTT TGATTTCAACACAGTTGAATCTGTAAAAACCAAGCTGTTTCTGATGCAGGACAAATATCCACAAT ATTTAAAACTGCAAGCACCATGC
WI-14149	83	C T ---	---	---	GCCTTATTGGGATTGCAAGCGTTACAAGGTTAAAGACAAAAACCAAGCATGGGATTTTGC CGGAAAT ATTAGCGTTAAAGGAG/C/TTGAGTTGAGTCAAAACACGGG
WI-8712	44	G A G	CACAGGGAAG AGGTAGTGA	CAGGAAGCCTG ACCATCTC	TCAACAATGACACTGTGTAAACAGCACAGGGAAGAGGTAGTGGAG/G/AGAGATGGTCAGGCTTCTCTG TTCTTAACCCAGCAGAGCCCCAGCAACCTAGAAAGCGCCTCACCTAGCCTCTTAAT

WI-8827	22	C T	TCCCTGGGAG ACTATGG	GCATTAGGAT TTTAGTGTTCA C	GGTGCCCTGGGAGACTATGGC/TAAGTGAACACTAAATCCTAATCGCCATGCATTGGAATTATT CCGACTATTACTTTCTTTAGTTCCTTCTTATCCACCCAGTCTTCT
WI-8833	51	A T	TCTTCATGCC ATTCTCTG	CCTCACACATT ATAGGGCA	CTCGGCCCTCTTAAAGCTCTCTGTAGACTGTCTCTCCATGCCATTCTCTG/ATTTGCCCTATAATGT GTGAGGGTATTACAATAGTCCCTATTCAAACCTGCTTGTATATAAAAGGTCAGCTATGT
WI-8377	63	A G	---	---	ATTTTTAGCCATGTTGGTAAAGTTTCAATTTTTCAGTACATGGGTAAACCCAGGCCCTTTCCC/A/GJT TATATCCAGGTATGCTACAAGTCTTTTAACTCTTATCAGAAGTTATTATTACTGTTTCCTTAGAGAG GCTACCAGGCTAAATTCACCTTAGTTTGGTTGCTAATGTCCTCATTTTATCCTGAAAGCTCGTG
WI-8850	21	A G	GGGACTTAAC CTTTGGCT	CAACAGCCA GGCAGG	GAGGGACTTAACCTTTGGCTTAAG/CCTGCTGGCTGTTGGCTCTGCGCTTGCTGTTTGGTTTCTT TCTCTTCTACTGGTCTTTCTTTGCTTTGCCAGCCACCTATGCTGCTGT
WI-8853	79	C T	CCCGGGCATTG AGGATA	AGTCTTCTGA GCCTCCAT	ACTTTCTTGAGCTGAGCAACCTCATCTCTTTAGCTTCTGGTTGATAACGCTGGTTAATCCCCGGG CATTTAGGATA/C/TAAGGAAGGCTCAGGAAGACTTCTTCTCAA
WI-8865b	52	A G	---	---	AGGGTGAAGTGAATCACAGGCACAGACTGAGGAAGACAGTCTGTCGAACA/A/GJACAAACATGCT TCGGACTTACCAAAGGGAGAGTGGAGCTTTCCATATAA
WI-8865a	42	T C	CACAGACTGA GGAAGACAGT CA	GGTAAGTCCGA AGCATGTTG	AGGGTGACTGGAATCACAGGCACAGACTGAGGAAGACAGTCA/T/CJGGTCGAACAAACAACATGCT TCGGACTTACCAAAGGGAGAGTGGAGCTTTCCATATAA
WI-8895	32	A C	---	---	GTCCACAAACCTGGACACCAACCAACAGAA/TA/CJCTCCCGTCTTTGAAATTTCCATTAAAGAGCA CAATGGGGTAATTATACCAGGGATGCTCCAATCGCTCTTC
WI-8456	93	G C	---	---	CCTTTAAAGTCACAGTCAACTCGACTGTGGACTGATATATTTGTGAATATAATAAACTCTTTTCC AAGGCTCCCATGCTTGGATGTCACA/G/CJTATGTCAAGTTAATAAACAATTTCTAAGTGCTCACTC TCAACTTCTGTGTTATCTTGCCATGGTCCAGTAACAGTTTCAACGGCAGACCAACAAGTTGTGTAGCAC TGGCATAGACGAGGGCTTCTCAAACCTCCGCTGCTGCTCAGTCAACCCAC
WI-8496b	157	A G	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGATGGTAATGTTGTATCAGTGCATATTTCTATGGAAA ATTATATCTCAAGTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA AAGACACAATGCTGCCAATGCA/AGJTATATAGAAATAATACGACGCTGTAGAAAAAGTCT GTGGCCAAAGTGGGATAAAACAGTAGCAGTGAC
WI-8496	41	G A	---	---	TTTCATCATCAAAAGTTTCTTTCCATAGAAGATGGTAATGTTGTATCAGTGCATATTTCTATGG AAAATTCATATCTCAAGTAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG GTCAAAGACACAATGCTGCCAATGCAATAGTATATAGAAATAATACGACGCTGTAGAAAAAGTCT TGTGGCCAAAGTGGGATAAAACAGTAGCAGTGAC
WI-14153	28	A' G	GTGCAGGAAG GCCAGC	AACGGCAGGA GGGA	CTGCAGGTCTATGTGCAGGAAGGCCAGC/AGJTCCCTCTGCTGCCGTTGTACCCACATCCACAGAGCA GOCCTAGTGCCAGGTGCAGCCACTGCCACCCAGGCACACGGGAACAGGCCCATGCTGC

WI-12108	40 C T A T A	TGAAAAGGG TTAAACTCAA	TTGACCTGGTA TAATGAAAGT ATTTC	TCATGTTACTTTCTGGAAAAGGGTTAAACTCAAATATC[CT]GAAATACTTTTCATTATACCAGGT CAAGAAAAATGCCACAGCCAGAAAAATTTATTTAA
WI-5989	29 G A C A C A G G C A	CCACAAAGGT CACAGGCA	GGGTATAACAG AACCGTATGTA CG	CAGGCAACGTCCACAAAGGTACAGGCA[G/A]CGTACATACGGTCTGTTATACCCCATATATTAC CCCTTCATGTCCTAAAGAGACATTTCTCTTAGAGATTTTCAATTTTAGTGATCTTTAAAAAAAAT CTTGTTAACTTGCCCTCCATCTTTTCTTGCGTGAGGACACC
WI-12201	61 C T C T G C A T G	CCCACGTATCA CCTGCATG	CCGACCACATA CCTGGC	ATAGTCTTTTAGCCTTTTCTCGAGTGTTTATGTCCCAAGCCCACTGATCACCTGCATG[CT]GCCA GGTATGGTCGGGTGTGATGGACGTGGTTTGACAGCCCTCCACTGCTCGATAAAAGGC
WI-12018	31 A T T C T G A C T T	GGCAGGCAGC TCTGACTT	GGAGAGATGAC AGAAACAGAG AG	TTTTATCTGTCAAGCAGCAGCTCTGACTT[A/T]CTCTCTGTTTCTGTCTCTCTCCCCACATACCA ACTTCTTACCATGATGATTATACCAATAACAGTTCCTTATATGAGGGCTCTGGAAAAATTAGAC AGTGAAGCATGTTGCAG
WI-14162	57 A G C C T C	TGGCTCGCTG CCTC	AGGGATCAAA GAGAAAAGGC	TTTTTCGTTTGTAAATGATCCGAATGCTTGAGAAGAAACCCCTGGCTCGCTC[A/G]GCCTTTT CTCTTTGATCCCTGAGTTGCTGAGATTAAAGATGAGGTCCCAAATGAGAGCTACCAAGATGTAGTCG AGCGG
WI-15407	92 A G T T	CATGCCCTTTA AGGATTAAGT	TCTTTTCTCTTT TGGTAGTGGG	AGCATGTAAGGAGCAGTTTTATTGATTGGTATATTACAGGTTTCTAACCCAGCTGAAAAATTCAAAATA CATGCCCTTTAAGGATTAAGTTTAA[G/C]CCACACTACCAAAAGAGAAAAAGATTTATATGATCACAT ATAAGCAATGGAATCAGCA
WI-12319	109 T C A A T T	GTTGAGTATT GTTCTGCTCAT	GGGAAGGTCTG GTACATATTGG	TCTGATGTCATTTATTGGCACAAAAATTTATTCTGATACAACATGGTGTCTAGACATGGCTACACTTTA TACTTTGTGCATTTAGTTGAGTATTTGTTCTGCTCATAATTT[C/C]CCAATATGTACCAGACCTTCCC
WI-12326	25 G A C A	GACAGACTTC AAAAGCAAAT	AGGTTTGAAAA TATGTATTAG TACTTTGT	CTGACAGACTTCAAAAGCAAATTCAC[G/A]CTTCCAGAATACAAAGTACTTAATACATATTTTCAAAAG CTGTTTGCAATTTCAAAACAAAGTTAGCGTTTTTGTAAATCAAAATTTGATAACCCGACTAAAAAT
WI-12361	63 C T ...	...	...	TTAAATCCACACTGAAGATCTGGAGTATGGGGGATATAGGAATTTTCAGCATATGTTATTATC[CT] TGAACATAATTTACAAAAGTGAACAGTTGGAAGGTACTTATAGGTAGACCTGAGGGTCTGTTACC
WI-11305	87 C T A T C A C A C C A	CAGACACAGC ATCACCCA	GACCCCTCCCGT GGG	ATACTGGTTTAAATCCATGTCAAATGTAGTTTACAAAAGGGAAGGACAAGTACCTTTGTATAGAATAT ACAGACACAGCATCACACCA[CT]AGGGCCACGGGAGGGTGGGGAGACGACACTTTTTCCTGGG AAAGG
WI-11321	67 A G T T T T	GGGAGGAAAA TCCAATAAAT	CATTGGGGAAT AGCTAAACCTT	ATTTTATATGAAGGTTTTCTGGTGAATCTTTTAAGCAGGGAGGAAAAATCCAATAAATTTTTTTAA[A/G]AAGGTTTAGCTATTCCCAATGCTATTTAATAACAATGAGGTAGGACGTTAAGTCTTATCAGA CTGTGACTGGAGCCCCG
WI-11324	40 C G T G T G C C C A	GGATAAATCA TGTCGCCCA	ATCAAGCTTTG GGGCTCT	AGCATACTGCATCTCCTTTATGGATAAATCATGTGCCCA[CT]GAGAGCCCCAAAGCTTGATGACAT TCTGTAAAGTTACACAAATGATCTGAAGAAGTTATCTGTTCTGTCC

WI-11352a	69	T C G	AGCAGCAC ATAGTGGAAA	GACCTCTCGTA GGACACTTAGC	TGACACATGGTTCTGTTTCCAGAAAGGAGAGAGATCATCTACATAAGCACAGCACATAGTGGAA AGT/CJGCTAAGTGTCTACGAGAGGTGAGATCATATCCATAGAAAAACAGCTCTCTTTTACTTGCA CACTTA
WI-11371	84	C T G	CAGCTGGAG ATTCTGATTCA	GCCCCGCTGA GCAC	TTAGCCCATGCTGTCAATTGCAATCACCTGTGAAACCTATGAAACTATACCTGCCAGGCTCAGCTT GGAGATTCTGATTGAGC/CJGTGCTCAGCGGGGTGGACATCCATGTTTGGGAAGAGTTGCGCGGGT GATTCGATGCGTATAT
WI-11385	75	T C G	ACAGAAGACT TTCATATTCTT	GATTCTATTCT AGTCATGGTCA TATTTT	CTTAAAGCATTATAGTTGGCCTGATGGTGGACACAGAAGACTTTCATATTTCTTTTAAAAAGTC TCTTCAGT/CJAGGAAAAAGCTACAGATTAAAAAATAGACCATGACTAGAAATAGAATCAGC
WI-11388	88	C A A	ACACGTAAC AAGTTC	TGCTTGTATC CAAGTTAAAT T	TCATGTGCCAGTTAGTCTCAGTTGGTTAGAGTGTGGAGCTCATAAAAAATTAAGAATGAATGTTT AAATTACACGTAACTAAGTTC/CJATAAATTTTAACTTGGATACAAAGGCATTGTTATGCTAAT
WI-11392	55	T G A	GGTATGTGT CTTGAACCTTA	GTACATTCACG TGTTTTGTAAA AAG	TTCTATCATTCCTTAATAATGGGCAGGTTATGTGTTCTTGAACCTTAAATAAATAC/CJCTTTTACA AAACAGTGAATGTACTTTCTTGTGCAAGGGGAACACTGAGTCTCCGCTCTAGATCCATTAACTGT CATACTCTCCCCAGA
WI-11396	52	A T T	TTTGTGTTTG AAATGGTGT	AGCTTATTTTC ATATTCACCCA TC	AAAGAATAAGATGGCATTTGTTGAGTTAAATTTGTTTTGAAATGGTGTTC/CJATGATGGGTGAATA TGAAAAAAGCTTACCTCATCCCACTCTAAAGGTAGTTGGTGATTTTGAACCGTTGTCAAT
WI-11441	100	C A C	TCCCCACCAAC CAGC	TGCCAGGGCCT TATTTG	CTGTGAGTCTTCCCCAATAACCGTGAGTTCAGTATGTCTGGCAGCACGCTGTCTTGTCTTGGTG TATCCCATTAAGTGAATCCCAACCAACGAG/CJCAAAATAGGCCCTGGCACAAAGTAAGCTCTCC ATTTTGTAGAATGAAT
WI-11466	26	C T T	TGAGAAGCCA TTTATTTTGA	GTTTATTGTTA TAAAAATGAC CTACAACCT	ACTTTGAGAAGCCATTTATTTTGCAG/CJCTTCAGTCCAAAAAGTCAACATTTTCAGAAATTTTT TATATAAGTTGTAGGTCAATTTTATAACAATAAACTTCTATTTATCTATTTATCTCTCACATACATTT CATGTATCCTG
WI-13364	35	A G ...	GGCAGOCAGG AGCAGAC	...	TTTTCTTTTGTGCTCTTTTATTTAGTAGAAGC/CJGGAAACAGTTGTCAATACTACTCTCTGTGG TCCCCTGTTAGACAACATACCTTTCTTTGAAATGTAAAAATGTCA
WI-11276	41	A G	GGCAGOCAGG AGCAGAC	TGTACTGAGGA GOOGGTG	AGGCAACACTGCTTTATTAGCCGGGCGAGCCAGGAGCAGAC/CJGACCCGGCTCCTCAGTACACATT CCCCACCCCTGCCCTCGTGCTCCCACTCAGGGCTGGGCATGGGGGCGAGCTAGGCTCTGGAA
WI-12210	76	A G A	ACTGGGAAAA CAACTATTGC	TGCTAGTTTGC ATATGTTTTCC	ATTGGAAACAACCTTAATAATTTGCATCTCTACATATAGAAAGCTGCTTTGAATAACTGGGAAAAACAA CTATTGCAAT/CJGGAAAAACATATGCAAACTAGCATCATTTGCTCTAGA
WI-14186b	88	A G ...	...	...	AATGGTCTGGTTTTATTGAGAAGCTGTTGGTCATTTGATGGAAAGACACATACGGGTACAAAAATACA GGTGGTTAGTTCAATACATG/CJACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT

WI-14186a	52 C T A	GGTCATTTGAT GGAAAGACAC	AACATAACCA CCTGTAATTTT GTACC	AATGGTCTGGTTTATTGAGAAGCTGTTGGTCAATTTGATGGAAGACACATACATCTTTGGTACAAAAT ACAGGTGGTTAGTTTCATTACATGATACAAATCATTAGAGTCTTTACAAGTCATTAGAGTCTTTGGAT TTT
WI-12234	66 A G GTGGGCTT	GAGAACACCT GTGGGCTT	GGACCTATCAG TCCATGTTTGA	ATTTTTTTGGCTATAGGTGAGTGTCTTAAACCTTGAGCTTGCAGAGAACACTTTGGGGCTTTA GTTCAACATGAGCTAGTGGTCCACCCAGATTTCTAACTGGTAGGTCTGGGTG
WI-12345	37 C A AAAGAGAA	GTGGCAGGAA AAAGAGAA	TTGACAGGGG TTACGG	GGAACAGACCTGATCCACGTGGCAGGAAAGAGGAACATCTGCTGAACCCCTCTGCAAGTATCTCT TTCTGACCAGCTGGGCTTGGGACTTTGGAGATTGCAAAA
WI-13416	71 C A AAA	AAATTTTGG AAGTTTTTCAG	AGTGTATAG TTCAATGAATA ATTTCAA	GAAAAGGCTGTAATTTTATTTCAAATTTTGGAAAGTTTTCAGAAAAATAAAATGACAAGAAC CATACTA/AAATATTGAAATTTTCAATTTGAACATAAACAACCTTAGCAGAGGAAGGACTTTTGAT
WI-12310	46 G A AAAAGC	TTATCCCAAG TATAATTTTA	TGTTTAAATAT GTTTGGTCTT AAA	TTTGAAAAGATGCTGAAATTTTATCCCAAGTATAATTTTAAAAAGCTG/AJTTTAGGACCCCAACATA TTTAAACATCTCTACACATACAGAAATTTTCAGTTTACAAATATCCAGAAAGGCAATTTTCTTAAGCAG T
WI-12086	72 C T TTGGATTT	CCGGGAAAC TTGGATTT	GGAGTCTGGG GTCITGG	GAACCGAGCTTTATTGGAGCAAGAGTGTGGACACTGTTTACAAAAACGTTTCCGGGAAAACTTG GATTTCT/CCAAAGACCCGAGACTCTCCAGTTCTCACTGTTAGTAAGGTCAATTTGGGGGCAGA ACAGGAACATGCTTAGCT
WI-11549	102 T G TTTTATG	GGCATAAAGT TCATAATATTC	GGAAAGTCTGT ACAAATCCCC	ATGCTTCACAGGTTGATTTTGTAAAGAGTTTGTCTATCTAAATTTTCATATTTATTTGGCATAAAGT TCATAATATCTTTTATGATCTTTAAATATCTGTT/GGGGATTTGTACAGACTTTTCTC
WI-11585	79 T C AAACAAAA	TGGGTTTGCAA AAACAAAA	CCATGCTTCAC TGATACITTC	TTAGAGGAAAGAAATAAACACGGTAAATGGGAAATCAGTTCAGAGGTAGGAAGGAGCTGGGTT TGCAAAAACAAAAATTC/GGAAAGTATCAGTGAAGCATGGCCTAGAAAGTCCAAAGAGCGGGGTAGAGT TT
WI-11604	68 G C ...		---	TTAGTTGGTTTCTGAAACCTTTATGCTGTTTATTTTAAACCAATAGGATGTTCCAGTTACCAGCATTT G/CJAGAACTAGGGACTTTTCCATGAAAAATAATTAAGAGCTAAGGAATTTCTGACGCTCACCATTTTTC TTGTTACTCTGCAGTT
WI-11614c	108 C A ...		---	CAAAATCAAAAATTTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTGAGGCAT GTTCCACCCCTGGACTTGCCAACTTTCACTGTGAAACTGCAACATATAATTAAGTATTCGTCAGCTAC GGACTTCGT
WI-11614a	60 A G CAGCTGCTTG	CCAGAAGACT CAGCTGCTTG	AGGTGGGAAC ATGCC	CAAAATCAAAAATTTGAGGAGGCAAGAACAGAAAGTAAATCCAGAAAGACTCAGCTGCTTGAGGCAT CATGTTCCACCCCTGGACTTGCCAACTTTCACTGTGAAACTGCAACATATAATTAAGTATTCGTCAGCTAC GGACTTCGT
WI-11626b	83 T C ...		---	TTGATTTTACTAAGGCTCTCCACTGGAACATGAAGGTAGGGATAAGGTGACAGGATAATATACTCAG ATATTTTAAAAATAAAATTC/TACTTAATAATAAGAAATAGCCATACCACATTTGTTCCATTTTGCTAC AAGAACAATTTGGCAATGA

WI-11626a	39	T C C A C T G G A A C A T G A A G G T A G	G T G G T A T G G C T A A T T T C T T A T T A T T A A G T	T T G A T T T A C T A A G G T C T T C C A C T G G A A C A T G A A G G T A G [G/A] G A T A A G T G T A C A G G A T A A T A T A C T C A G A T A T T T T A A A A T A A A T T A C T T A A T A A T A A G A A A T T A G C C A T A C C A C A T T G T T C C A T T T G C T A C A A G A A C A A A T T G G C A A T G A
WI-11627	23	T C C T T C C T T C C C A T T G C A A C C C A T C T C A A G	C A T T T G C A A C C C A T C T C A A G	A C C C C T T T C C T T C C A T G T C C T C T [G/C] T T G A G A T G G G T T G C A A T G G G A A G T A A A A G C A A A A A A G G G A G A T G A A A A T A C T A G C C T T T T T G T C T G G C T A C T T C C A T T C G C A T G T C A A G T C C A T C C A T G
WI-11636	61	G G A C T T A A A A A G A T C T G C T T A T C C T	A G A A C T T G C T A A A T A T T T T A T G T A A C A C T	T C A G A A A T G T T G C A A G C A A A T A C T A T T T G T A A A G G T G G A C T T A A A A A G A T C T G C T T A T C C T T A [G/J] T A T A T C C A C A T A A C T C T A G T G T T A C A T A A A A T A T T A G C A A G T T T C T G T G A C A G G T G C T C A G T A A A C A C T T T G A C T C C T T T T T T G G T A
WI-11537	119	A T T G C T C A T C T T A C T C T G A C C A T	G A C C C A G C A A A A A G A A T G A T T	G T A C C A T T T C T A T G G T G G C A A A T A A G C A A A C T G T G A G T A A A C G A G G G C A G C T G A T A A A T T T A C A G T A T A C A A T A T T A G A G A A T A T A T G T T G C A A T T G C T C A T C T T A C T C T G A C C A T [C/G] A T A A T C A T C T T T T T G C T G G G T C C A G G A C C
WI-11654	37	G C C A A A A G A C T A T T C A G C A A C T G	G G C T C T C C C A G G A C A G T T	A G T A G A C A C A T C A G T G C C A A A G A C A T T A T C A G C A A C T G [G/C] A A A C T G T C C T G G G A G A G C C A C T C C A G A G C T A T T T C T A A G A C T T T C T G T G G T T T C A T A C T C T A C T C A G A G T T C A C A C T A T A T T T C A T A T T T T T A T T T T G G G T G T T G G G T
WI-11656	28	A A G G A A C T G C A A A A A	C A A G G C T T T G T C C T C A A G T A A A	A C C T G A T T G A T T T A G A A G G A A C T G C A A [G/A] C T T T A C T T G A G G A C A A A G C C T T G C C T G C A G T T G T T T A A A A T G T C C T G A A A C A A T C A G A T T C C C A G C C T G G A T
WI-11680	55	T C C A A A A G A C T A T T C A G C A A C T G	...	A C A G A T A C T T T T C C A C G C A A C A T T T C T G A A A T G A A G C T T T G A T T C T C C C C T T T [G/C] T T G C A T A A A G G C T G G G A A G G T G G T T G C C A G A C C G T A C A T C T T T T
WI-11696	47	T T A T C A C A G C A G G G G A C A G A	G G C A T T A G A G A A G C C A A C C T T	G T C C A A G A A C A A A G A T A C T T T G A C A T C T T T A T C A C A G C A G G G G A C A G [T/C] A A G G T T G G C T T C T A A T G C C C A C C A T C T T G T G T T T T C A G A A T C T T T C C A C T T C G C C
WI-11702	69	G A A T A A T A C T G A A A T A A C C A C A G C A G	A G A A C A A C T T A A G C A A A T T A T A C T G A A A	T T A C A T G T G T C A A T G G T G A C A T A C T T T C A T A A T T A A A A T C G A A T A A T A C T G A A A T A A C C A C A G C A G [C/T] T T T C A G T A A T T T G C T T A A G T T G T T C T A G A A A A C A C A C T G C T A A T T T T T T T T C T G C A G A
WI-11706	60	T G G C T G G A A T T T T C T C T T C T T T	A T C A C C A A A G A A C A A A T T C C A	T G C T G A T T C A T C G C T T C T A C C A T C T G G C T G G A A T T T C T C T T C T T G T A C A A T T A T T T G C [C/T] G G C T G G A A T T T G T C T T T G T G A T T T G C C C C T T G C T G C T
WI-11709	105	A G A A G C T T G C T T C A G T T T G C A	T C A T T T C T T C T A A T T T A C G G G A	A A T A T C A T C A C T C A T A T C A G G C A T G T T T A T A A A A T G A G A G A T T A T G T C C T T T T T T G C A T A C T T C A T C T T C T T C A G G A C A C A G A G A A G C T T G C T T C A G T T G C [T/A] G T C C C G T A A A A T T A G A A G A A A T G A A T G G C C A G A T G G A T G G A A A A
WI-11710	103	G C A C C T A G C C T C A G T C T T C A	G T G T G G A G G A G G G A G G A G	T T A T A C C A T C A A C C T G T C C C C A G C T T T C C A G C A C A C A G C C A G C C A C A C T C T A G A C A C G C C T T C A C T C C A G T C A T T C T G G C A C C T A G C C T A G C T C A G T T C A C [C/A] C T C C T C C C T C C C A C A C A C T C C T T C

WI-11715b	123 C T	AGGCTGGCTGC AGCTT	TCOCATCCTG TGGCT	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAACAGACAAAATGCATTACAACCTGTGG TGTAATGTGGCCACTATGAATCCCTATGTATAAGAGAAAGAGGCTGGCTGCAGCTTC/TJAGCCAC AGGATGGGGACTGGGGAAGA
WI-11715a	49 A C AAA	GCACACAATG TAAACAGAC	CATTACACCAC AGTTGTAATGC A	AGAATGGAGCTGTTGGGAGGGACATGCACACAATGTAAACAGACAAAATGCATTACAACCTGTGG TGGTGAATGTGGCCACTATGAATCCCTATGTATAAGAGAAAGAGGCTGGCTGCAGCTTCAGCCAC AGGATGGGGACTGGGGAAGA
WI-11727	43 G C TCAACA	AACAATCCTT AAAACAACATA	CCTGTGTTTG TGTTGCAG	CTGGATTTCTATACCTAACAAATCCTTAAACAACATATCAACA[G/C]CTGCAACACAAAACACAGGC AAATGAAAACAGATGCCCCAGACAGACACCCACCACATGGCACACAC
WI-11728	16 C G ...	ATCTGTGTTT TCGCTG	...	TTTATTTATCAAACT[G/C]CAATCCATTTTCACAAAATGTAAGTTATCATCAGTCCCCATCCACTTT CTCCATCTTCTATCTCTTCCCACTTCTCTCCCTACACTTCTCTCCCTACAAACCCGGTTCCAAA
WI-11758	61 A G	ATCTGTGTTT TCGCTG	TGATGGCCCT GTGGCTA	TTTTCTCTTTTATTAAGTCGCTACTAATAAGAGGAATCTGTGGTTTTCGCTG[G/J]TAG ACCACAGGGCCAATCACACAGCTTCTTTGTAGAGAACATGGAGATGCCAAGATCACCATCA
WI-11295	37 A G	GCCTCACAAA GTATTTCTAA AATATAA	AAAAGTGCTCA TCTGTGAATC T	CCGGCTCACAAAGTATTTCTAAAATATAATTTGCTT[G/J]TAGAGTTACAGATGAGCACTTTTCA CATTAGTGATATGCAACAAATCACTATTGGCTCAGCAGGAACAGACTTTT
WI-11773	93 T C ...	GGCTCAGAGA GCAAGGAA	...	AGCATGATATCTGCCTGGAGTTTCTGTGAGCTCAGCAACAGCAGAGTCAGAGATTAAAGAAAT ATTATTGCCTCTTTTTCCTCCCT[G/C]GTGATTGTTAATAGGAGTCAAGGCCAAGTTATC
WI-11282	42 C G	CCCAACTTACC AAACCTCTG	AAACTCAGA CTGTAAATTT GTGTG	CATGACAACTCTTTTATTTAATGGCTCAGAGAGCAAGGGA[G/C]GACACAAAAATTTACAGTCTGA GTTTTGCGCGCAGAGACCCCTCTCCACCTTTTCATGCCTGTGTACACACACACTGTCCAAAGCCTC AGA
WI-11790	28 A G	TCATCTAATCT GTGAGGTATTT AGTATACA	CGTAGGGGAG GCTAAGC	TAATTCACCCAACTTACCAACCTCTGT[G/J]GCTTAGCCTCGCTACCGTACACATGCTCAGAGCAC TTACATTAACTACAATGGCAAAATCATCTAACACAAAGC
WI-11879	61 C A	GTGAGGTATTT AGTATACA	GATAGTTGAAC CCTTCACCTT ATAAAA	TTTTAATTCCAAAGCTTACAACCATCTTTTCATCTAATCTGTGAGGTATTTAGTATACAG[C/A]AGT GATTTCTCTCTTTTCTTTTATAAAGTGAAGAGGTTCAACTATCCAGACAGTCCCATCTA
WI-12469b	91 C T	GTGAGGTATTT AGTATACA	CAATTTTCAGA TTGCTATAGC AAAC	TTTACTAATTTCCATTTCTCCCTTTTATAGTTTTTAAATGTGGTATTAGAAAAGTTTAAATTTACAT ATGTGGCTTATATTTCTATTTCTA[C/J]TGACAGCAGAGTCTTCAAAGTTTGTATAGACAATCTGA AAATGGGTTCTGAAT
WI-11906	52 A G	TGTTATAACAT CAAGAAAGA	TTAATTTCTGC AGTCCCTCA	ACATTTGAGTAGGAATGACTTTGTGTTATAACATCAAGAAAGAAATCTGAAT[G/J]TAGGGGAAGTGT CAGAAATTAACCTTTCAGTCTAATTTCTCAGATGCCAGAGTAAGATGAACCTTTTACAG

WI-11909	78 A G	TTTGTTGGG TGGTCAAG	CCTCTCTGAG ATTTCTGAAT AG	GCAGTTCTCTGAAAGACAATGGATTGGAGCATACTGAAGACTATTCCTAAATGGCTATTTGTGTTG GGTGGTCAAGAGTCTATTTCAGAAAATCTCAGAGGAGGACAAATGATAGTGCACCTGCAGCCAGCTCG GACTGGCTTGAAGAGTC
WI-11806	60 T G	CATGAAGAGT GGGCAGTTCA	TCTGTAAAGC CAATTTTATAT ACTAATAA	AAAAATACCATTTAGCATCAATTGCCCCAAGTTTGGCAGGCATGAAGAGTGGGCAGTTCAIT/GJGTT TTATTAGTATATAAAATGGCTTTACAGGAAGCATTATGG
WI-11946	31 C A	---	---	CCCTAGTGAATACAACCTTTGTCTCTGGAGAC[C/A]CCAGCTAGTCTAAGAAAACTTCTCTAGGCTGAG CTCTCTGGGAATCTAAGATAAAGAACTGAGATCCTCTGGGAAGAGGAA
WI-11965	65 T G	TGAAGATCAG ATCTCTGGTTT GATTT	CAGCTGTGGTG AATGTTGAT	ACAAAATTCACAAGTACAACACTGCTTATTTTCTTGGTTGAAGATCAGATCTCTGGTTTATTTAAIT/ GJATCAACATTCACACAGCTGAAGGAAATTAACCTGAACCT
WI-11027	90 T A	TGCCCTACTAC GCTTTTAAAA A	TGAGGAAATGT GTTACAGTATT TTTATT	ACCTATTTTGAACACTGCAGAAAGGGCAGGACAAAAACAATCACTTTCATAGATTTTCTGGGAAATAT TGCCCTACTACGCTTTTAAAAAT/AJAATAAAAAATCTGTAAACACATTTCTCATTTCTCTTACGA ATACTTCTTTTGTATTTGCAAAATTTCTATGGCATAACAGAGGCACCTCTCTCAATGCCCCTG
WI-11049	95 C T	---	---	TTCTGCTGAAGATCACAAAACAATTTCAACCTCTGTGGTTCAAAATAATTTAAGGATCTTGTACCTTT GTGTTTATTTCTGTTTCAACTAAGGAC/TAGACTTCAGAAAGGCATAGCTTCCCTTGTAAACGTTTTT AAACATCTTTTCAITTTAGGAAAGGAACATTTCAAAAGCCCCAA
WI-15488	69 C T	AAAAGGACAG CCAGATATCA TAC	TTTCCATCTTA TTTCATTCTCG TAAC	CAACATTTATCAACATGGTAGGAAAAAGTTCTCACTCTGCACATAAAAAAGGACAGCCAGATATCA AC[C/T]GTTACAGAAATGAATAAGATGGAAAAATTTTAAACAAATTG
WI-13654	49 A G	AACAGTTAAT GAAACACATC OGT	GGCTGGTGAAA TGATGTCAT	TGCTCAATTTAATGTGATAATCTCCAACAGTTAATGAACACATCCGTA[A/G]GTATGACATCATTT CACCAGCCAGCTACTTCATGTGGCAGAAAAGGTAACCTTTTCCCATTTTACAGACAAAACCCAGT
WI-11070b	135 C T	---	---	ATGAGACCCTGCTTTGAACGTTAAACGTTTGGAAATAATGGAAAAGGAGCTAGGACAATTTCTGCTT TCAAGTAAAAATTTGACTGAGCAGAAAAATCAGCCAGCTATCTTGGGTGCAGAGAGGTACTCCAAGTA C[C/T]GTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAAGGAA
WI-11070a	110 G T	CAGAAAAATCA GCCAGCTATCT	TTGGAGTACCT CTCTGCACC	ATGAGACCCTGCTTTGAACGTTAAACGTTTGGAAATAATGGAAAAGGAGCTAGGACAATTTCTGCTT TCAAGTAAAAATTTGACTGAGCAGAAAAATCAGCCAGCTATCTTGGTGCAGAGAGGTACTCCAA GTACCGTGGGGTTCTGATGACTTCCACGGTCACTGGGGATCCAACAGAAAGGAA
WI-12020	121 T C	---	---	AATCTTTTATATTCACGCTGTTGAGACAGTATTTTGGGGCTGATGTTACCTCTAGCGCGGAAACC AGAGCCAGCTATTAAGCAGCCAGAAAGCTACAGTAATTGAATACATGACCATT[C/C]CTCTTTTAGC ACGTTCTTTGTTCTCCTG

WI-11076b	142 G A ---			---	CATGGTTCTGCCAGCTTACAGGAAGCATGGTGGCTGGCATCGGCTTATCTTCTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCATGTACATACCCAGAGCAGGAGAGAG AAAGAGAG[G/A]AAGTGCCACACATTTTAAATGATGATTTCTCTCAAGGAACCTCACTCACTGTGCAT G
WI-11076a	106 T C AGGCA	AAGGGGAGC	TCCTGCTCTGG GTATGTGAC	GGTTATTCAAA AATTAGTATGG GACA	CATGGTTCTGCCAGCTTACAGGAAGCATGGTGGCTGGCATCGGCTTATCTTCTGGAGGCCTCAGGAA ACTCTGAATTATGGCAGTAGGCAAGGGGAGCAGGCATGTACATACCCAGAGCAGGAGAG GAGAAAGAGAGGAAGTGCCACACATTTTAAATGATGATTTCTCTCAAGGAACCTCACTCACTGTGCAT G
WI-14263	49 T C GGCATATTCA	CGCAGAAAA	CGCAGAAAA GGCATATTCA	---	ACCTTTAAAGTTTCTCCACCTACTCCCGCAGAAAAAGGCATATTCAAT[G/C]GTGCCCATACTAATT TTTGAATAACCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTTCTTTTGGCTACAAGTAACA AATTATTGCTGAAATTAGGAAGGAGCAAT[C]TGAAATGGGAAGGGGAGGTTAGAGAAGACAGAG ATTTAAAGAAAGCAAGTACCATTTTCCAAGTATAAAACTCGTA
WI-14267	28 T C ---	CTTTTCATTTT TGCTTTTAAA	TGATGATGTCA TATACTAAAA ATCAAG	---	GATTTGTTTATTTCATTCGCTTTTCAATTTTGTCTTTTAAATAGAACA[G/A]CTTTGATTTTAGTA TATGACATCATCATGATGAATTTTCTCTTACTTTGTTATTTAGGCTCCACCTCAGTAGTTTGACAA AGGTAGAATGAGTTCA
WI-13892	50 G A TAGAAC	CATGAGAGGA	AAAAGCTTCTT TCCCTTGGGA	---	ACCTCTTCTGATGACACTTGTACCTGTAAAGGGTCTAGAGAGAAAGAGTAGTACTCCTACTTTGC TACAAATTCAGGATGCAGGGCATGAGAGGATTCCTCTCTC[G/C]TCCAAGGAAAGAGCTTTTGGC AATAATGGAAGAGGAGTGAACAAAGTAATGAACAAACAGACCCAGATCAGAGGAAGAGATG GCTTCTTGTTAATTCTGGAGCA[G/C]ATTCAAGCAGCAAAATATTTACTGAACACTTGTATGTGCTG G
WI-13951b	88 G C ---	GGAGTGAACA AAGTAATGAA	TTCTCTGATC TGGGGTCT	---	AATAATGGAAGAGGAGTGAACAAAGTAATGAACAAA[C/T]AGACCCAGATCAGAGGAAGAG ATGGCTTTCTTGTTAATTCTGGAGCAGATTCAAGCAGCAAAATATTTACTGAACACTTGTATGTGCTG G
WI-13951a	39 C T CAAAA	AAAAAGGCTC TTGCCCAT	GGAGGGAGAG ACGGGAATA	GGAGGGAGAG ACGGGAATA	GAGACAAAAGGCTCTTGCCCAT[G/A]ATTCCCGTCTCTCCCTCCTGACTGACCCAGTGTCTT ACAATGAACATCCCTCAGCCCCCATGGCATGGTGATCCCCCTTCTCTTGGGATCTGTGAATATAACCA ACTGTCTTGTCATGGC
WI-13264	25 G A TTGCCAT	AGCAAAAGGA AGTTAAATAC	CATGAAAGGA CAAAATTTGCAT C	CATGAAAGGA CAAAATTTGCAT C	TTATTTGTCAATTAGCAAAAGGAAGTTAAATACTGATAG[A/C]GATGCAAAATTTGTCCCTTTCATGCA TTTGTGGAGCAAGTACTAATTTGTTTCACTGTCAATTTCCCTCACAAGGAGTTGAGCCCCCTAGATGAC
WI-13960	39 A C TGATAGA	ATCTTATAACC AAGAAGCCTT	CTCTGGCTCAG ACTTGCTCT	CTCTGGCTCAG ACTTGCTCT	AACTCTTTATTGTTTAGTCCCGCAGTACTTTATGCATCTTATAACCAAGAGCCTTTCAG[C/T]AG AGCAAGTCTGAGCCAGAGGTTTATACACTTTTGCTCAGGGTCCACCGAACCAGGCTTGGCT
WI-15843	62 C T CAG				

WI-13983	52	G A	TCTCTCCACT CCTTAAACCT	CAATACTCTCT TAGCCCACTGG	TTGTGTATCTGATTCCGAAACATAGAAAATCTCTCTCCACTCTCTAAACCT[G/A]CCACTGGGCTAA GAGAGTATTGTACAGAATATGCACCTGACTTACAGAAATTAGAACATCCAGGCACTCACTGAGA
WI-13850	51	A G T T	AATCTCAGGG TCACAGCTTTA	TGTTCCCTGAC AATGTTTGTA	CATGAATCTCAGGGTCACAGCTTTATTTTATAGATTTTTTAAACACAGCCAT[G/G]TTACAAAACATTGT CAGGGAACATTACAGAATAAATAAGATGGACTTGCAGGTGTAAAAGATTACACTCA
WI-15295	27	G C A	TGTCAGTTTGA ATGTATTCCTG	TGAATAGTTGG CAAAAGGAAA	AGATGTCAGTTTGAATGTATTCCTGTATTCCTTTGCGCAACTATTCATTATGACCATCTTTTC CTCGTCAAGTGACCTGCCATCATCACAAGAAAAGGCCCGCAAAATATGAGTGAGACTCA
WI-14284	55	C T ---	---	---	ATTTCAAAACAAATCCAGAACAGTTCTCACACTTTGAGCCCTTTAGTGCAAAAACA[C/T]TATGCCAT GCGGGAATAAAATGCTTATCCAGTGGAGCGCTCCCTGATGCATTGA
WI-14288	85	G C C C C A G A T	CCGCTGCTATT CCCAGAT	GGTCTCTTCC ACCAATCTT	ATGACCAGACCAGAAGCCCTGTTCTATATGAAGACAAACAGGTGGCCATACCTGGGTGGAGGGATA CCGCTGCTATCCAGAT[G/C]AAGATTTGGTGAAGGAGACCATGACAGATGACAAACGG
WI-13522	33	C T A C A A C	TGATGTAGTTA CCCCACTAAT	CATAATATTG AAGTCAGTGGT	TTTATTTGATGTAGTTACCCACTAATAACAAC[C/T]GAGAACCCTGACTTCAAATATTATGAGAG AAATTAATCTCCAGGAATTTTTCAGAGAGAATAATA
WI-13529	42	T C T T A C C A	CACAAACATT TATTGAACAG	TCTATACACT CTCACTCTCT	AAATATGATTCCTATCCACAACATTTATTGAACAGTTACCA[T/C]AAGCAAGAGAGTGAGAAGTGT ATAGAGGTGATTTAAGAGTGGTCCCTGTCTCGAGGGTTTATAGTCTAACAGGGGAACAACCTCTC A
WI-13859	84	G A ---	---	---	TTATTTGTCAGAAATTTCCAGAAATCAGAGTCTCTACTGGGCAAGTAGAAAAATAGAAAAGTTTACTAC TTTGAAAAGGAAAACCTAT[G/A]JACAAACAAAGTATATATTCAGGAAAGGGACTCCTAGAACTTGAGCA ACA
WI-13536	29	T C ---	---	---	TGAAAGGATACAGAAAAAATCAGCGAAGT[C/G]GAAAAGGTGGATAGCGTGGAGTAGAGGAGAAAT TAAGCACAGCTTCCAGTTGCTCTCTCCAGTGCCATGACATGGAGTACACTTAATTTTCTCAGCA
WI-13373	52	G A ---	---	---	TTTTATTGTTGGTAGAAAAACAGGCTCTTTAACACTGAATAACATCTCAC[G/A]AACTGTCGCTC CTAGATTACAAAAAGTCAAAACCAATTTCCCTTGACGCCGGGCCCTTGAATCTGACATTTCAAGTCAC CGTAATAGAAAAACAGAGCT
WI-13477b	61	A G ---	---	---	TTGGTTTTTAATACCTCTTGTGGATAAAAGGACATTTGTTTTCAATTAGCTTGTCTTCAAAA[A/G]GAC AGAGAAATAAGATAAAATTACCTTAAAGAAATTAATAGAAAATTAAGGGAACATGTACCAAGGTGG TTTTAGACTCTCTCAGTT
WI-13477a	32	A G A G G	TTAATACCTCT TGTTGGATAA	GAAGACAAGC TAATGAAAAA	TTGGTTTTTAATACCTCTTGTGGATAAAAGG[A/G]CATTGTTTTTATTAGCTTGTCTTCAAAAGAC AGAGAAATAAGATAAAATTACCTTAAAGAAATTAATAGAAAATTAAGGGAACATGTACCAAGGTGG TTTTAGACTCTCTCAGTT

WI-14297	86 A T G	AATGTTGGGT ACTTTTCCAA	TGTGCACATTC AGAAACATTT	CTGACTTTATTAGCATGCAATGCAATTTATCTGCGCAATAAATTAATATGTGCGAGTTATAAAAAAT GTTGGGTACTTTTCCAAAG/ATJAAATGTTTCTGAATGTGCACACTAGAATATATGCAGAATCCTTT AAACAGTCGACT
WI-12229	89 T G AAA	CATGTGGACA AAAAGAGTAA	ACATGTGAATT GTCCCAAAA	TCCATGTAATATATTCTCAACAGAGAACACTATCTTTAAATGAAGGATTTACCATTAAGAAATCAACA TGTGCACAAAAAGAGTAAAAATTTGJACCAAAAAATTAAGATTTTGGGACAAATTCACATGTTT AAAAAT
WI-13582	43 C A	TGCAATCTAG AGACTGGGA	TCTGGCGAGTT AGATTCCA	AAGCTGCCCTTACTGGACCAATGCAATCTAGAGACTGGGA/C/ATJGGAATCTAACTGCGCAGAG AAATCAAGACCGATGTGTGAAATCTGGGGAGCTTCAAAATTTCTGCCCTCTAAACACATTTTCAC CCAATTTTTCATTATGGCC
WI-13857	28 A G ...	...	...	TCTGAGTTGATAAAATGCTTTTCTGAAC/AGJTACATTTTAGGTATCTGGCACAATTAACCAAAATGT CTGCCCATTTTGTGTAGCTTTTCATACAGTACAGATTTTCATTTGATGTGCTGCCACATCTG
WI-15809	77 T G	TGGTTTCTGT TGTAATGCC	TAAGTAGCTA ATTCAATGTTT GTAAA	GTTTAAAGTTGCAGAGATGTGAATGGTTTACAAATCTGAAGCTGAAGTTCAATCTTTGGTTTCTGTT GTAAATGCC/TTGTTTACAAACATTGAATAGCTACCTTAAGTATTGAAGAGCTTCCATT
WI-15892	123 A T ...	...	...	TAAATCAGTCTGTGTCAAGAAAGAAACAGGACTTGATCAAGCTCCAGCCCTCACCACCTCTATCAGCA TAGCAATTTTAAAGATCAGAGCTTTGTTTACATTTGTCTAAACCAAGAGAAGGAA/ATJGGAATCA ACTCCACAGATCAACATGT
WI-15801a	24 G A	CATACTCCACT CTAGCTGCAGT	AGAAGAGTGG ATGGGATGC	TCTTTTATCCAAAGATGGGAAGCGCATTTTTCATTGGCTTGAATGAGAAAGCTTCATCTCCACTCTA GCTGCAGTAATAC/TTGJGATCCCATCCACTCTCTCTCTCTTTTGTGACTGAAACTCTTCAAGAACT GCTGAATGTCTCTCTC
WI-13763	59 T C	TTTATTCCAAG AATGGGAAGC	TCATTCAAGCC AATGAAAATG	TCTTTTATCCAAAGATGGGAAGC/G/A/CATTTTCATTGGCTTGAATGAGAAAGCTTCATCTCCACT CTAGCTGCAGTAATACTGCATCCCATCCACTCTCTCTCTTTTGTGACTGAAACTCTTCAAGAACT GCTGAATGTCTCTCTC
WI-13578	48 T A AACC	GGCTGGACACT GCAGTAT	CCACACCTGC CCCT	GCTCGTAATGAGACAGAACGCTACAACTCTGTTCACACTGGGCTGGACTGCAGTGTTCJAGGG GCAGGTGTGGGCGAGGTGGGCTCTGAGCCGAGGACAATGTCCATGGCAGAGCTTCCAGAA TTTTTTTTTGGTGAGTGTGTCTCAATAAAGAGCAGAAAGAAACC/TTA/JAGACAAAAAGATGTT CTTACACACTGAGCTTTACACAGTCAACCAACATTTGATATTTTCCCGAGGGCAAAAAAGA GAGTCTTCCAGAAACCTC
WI-13789	62 G A	TTGGATGGCTG AGGGAG	CAGTGGCTTC CTCTGTC	TCCAAGGAAAAAGAAAGAAACCAATCAGTGAGAAAACTCAAGAAATTTGGCTGAGGGAG/G/A/ GAACAGAGGAAGCGCACTGGGCTGGGACTGAATATGACAGTGGATGTTAGGGTCTCACTCTCTT GAGGTCCCT
WI-13594	66 G A AGC	TTTTTAACACA GATCACA AAA	CCTTTGGCCA GTACTTTT	AATAACAAGTTTAAAGTTCCAGCTGCAATGTTGGCAATGCAGGTTTTTAAACACAGATCACA AAAAGC/ G/ATJGCACAAAAAGTACTGGCGCAAGGACAAAAATATGCTAAGAAATTAGGCCAAACAGCTGC

WI-15625	40 C T ---	---	GTTTCTCCCACTACTCCCGAGAAAAAGGCATATTCA[C/T]TGTCCTACTAATTTTGAATAA CCTAACTCTCCCTTTGTTTCTACTAAGAGAGGTTTCTTTTGGCTACAAGTAACA
WI-13367	84 C G A	TCCCCACCCCA CCCT	GTCTCACTTCTTGCTAGGCTGTAAATTTTCAGTTTAAACAAGTTTCTTATGTGATTTGTGGCCACACT GAAGACTCACCCAGAA[C/G]AGGGTGGGTGGGAATACCTAATCAATATTTGTGGAATTTACCCGAT GAAATCCAGTTATCCCT
WI-13600	26 G T AAGCATCCAT	CATATTGAAAA TTGTTACTAGA TGATGG	CTCACTTTAATGAGCCAAAGCATCCAT[G/T]CCATCATCTAGTAACAAATTTTCAATATGCACATTATAT TATACTGGAACAAAGAATACGGATTGTGTAGGGAAGAGCATAGAGGACCATCAGCAACCCTCT TGATTCCTTCTCTACCC
WI-13602	89 G T GACAACACA	GCATACCTCAT GACAATATTTA ATATTAAT	GATAGGAAAAAGAAATGAAGTCAATAGTCTTTAGCAAGCCAACTAGCTCAAGGAATAGACAGCCC CTTTCCATTCTGGAGACAACACA[G/T]AAATCTATTAAATATTGTCATGAGGTATGCACCT GCCCCA
WI-13650	76 A T TTTAAAC	CAGGCTAGGAT ATGAAGAGTA GTTTTT	GCATTAACATTTAAAAATCTGAGGGATATTGATGAGAACTATGATGAAAGATTCACAATATTTTAC TTTTAAAC[A/T]TAAAAACTACTCTTCATATCCTAGCCTGATGACTTAAAGTTACCGG
WI-14319	83 C T A	CCAAATCATCT ATATTGTTGCA TG	TGTTTGTATTGAAGAAACATCTCTAAAAATACCATCTGAGTGCAGATAAAAAAGGAATAGCAATT CAAGGCACAAAGCTAAG[C/T]ACATGCAACAATATAGATGATTTGGGGTGGGACAGTACAGAATT
WI-13528	80 A G AAA	CATGATACCAC AGTTTCTCTG AA	ATTGGATACATGCTTTTAAAAATGGTAGCTTTTAAACTGTAATCAATACATTTTGCATTTTCTAAAA AAAGAAGACATTT[A/G]TTTCAAGAGAAAACTGTGGTATCATGCAGGAAAAAGCAGAAAAAATT
WI-13909c	93 A T ---	---	ACTTAAACTGGCTTATCTTCACGGTAATCTATCTGTATTTCCAGTGAAGTTTCATCTTCTCACACT CTCTTCAAACCT[C/G]AATATCTTTTTCAGAGATGTCTAGTAGTACCCACTGCAACATCTCTCAA
WI-14323b	86 C A ---	GCAGTGGGTAC TAGCTAGACAT CTC	TTTTTATTGAATCCAAATGTAGCAAAATCATTAAAACAAAATTTATAAAGGGACAGAAAAATTAAG AATCAACATCATCTGGAC[C/A]ATGGGAACCTTGAAAGGCATGGCAGTGGAGACCAGTAACCTA
WI-14323a	78 T C ACATCA	GCCTTTTCAAG GTTCCCAT	TTTTTATTGAATCCAAATGTAGCAAAATCATTAAAACAAAATTTATAAAGGGACAGAAAAATTAAG AATCAACATCAT[C/T]CTGGACCATTGGAAACCTTGAAAGGCATGGCAGTGGAGACCAGTAACCTA
WI-15389b	104 G A AAA	GATGAGGTGAT TCCACACTT	AAAAATTGACAAATCAACTAGCTTGCTTTTGTGCTTTTGGAAAGTACCATTATTCAAATTTATTATGT AATACACTCATCCAGATAATGAACATCTCGAAAA[G/A]AAGTGTGGGAATCACCTCATCTGTGC

WI-15389a	33 G A TC	AATCAACTAG CTTGCTTTTG	TTTGAATAATG GTAGTCTTCCA AA	AAAAATTGACAAATCAACTAGCTTGGCTTTTGTGTC[G/A]TTTGAAGACTACCATTTACAAATTTATT ATGTAATACACTCATCCAGATAATGAACATCTGCGAAAGAAAGTGTGGGAATCACCTCATCTGTGTC TGTAATCTGCTTACAGTCTCTTGGCAAAGACAGACATATGTTTTGCATAAAGATATAAATTTGCTTCAT TTTAAACTAATTTAGTGTTTT[C]TTTAAATATATGAACCTTTGGTGAATATGAACGTGTACCAAAAC C
WI-15747	88 T C AGTGTT		TAAATT	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCTCTCGTTAAGTGTGGATATACCTGGCTTGACAC[C/T]GGACACCTTTTACG GAGGATTCCGGACAAC
WI-13752b	117 CT ---		---	AAGAAAAGCACATACATTTCCAGAAATTTGGAAAAGTTCACTCTGCAGCAGCTGAATGGCAGATGGT CTCTGCGATGAGTTCTCTCGTTAAGTGTGGATATAC[C/T]GGCTTGACCCGGACACCTTTTACG GAGGATTCCGGACAAC
WI-13752a	106 T C AGTGCTGA	CCCTCTCGTTA	CCCTCCGTA AGGTGTC	AATCATTTAATGAATGTTCCAAACACACCCCTTCACTGGCTACAGGTAAATTTCACTGGGATGGAAG CAGATGAACCCACCAATCAAAACAGTACATGATTAC[T/G]CGGTTCCAGAAATCTGGATAC
WI-14339	102 T G TTAC	CCCAATCAAA CAGTACATGA	TCCAGATTTCT GGAAACCG	TGGATGGATGGATGAGGCCACCTGTGTTCAACAAAACACGTAATGGAACCTTCATGCAGCTTTAGAT TTCTTTGCCAGCTAGGAGCTTGTGTATGGTGTGAACAAAACGTAAC[C/T]GCTGTGCTTATCTTTTC CTGATTCT
WI-13744	115 CT	TGGTGCTGAAC AAAACCTGAA	GATAAGCACA GC	CCTTTGACTATATTGTTTTTCCAAAATAGGACTATGTGTAGAAGAGAGCCCCGTTACATACCTTAT [C/T]AACCAATTCATCCACCACTTTGTAAAAATCTCATCTCTGGGTCTGGATACTCAAAAACAGAT
WI-14061	68 CT ---		---	TTACAGTTGGATTAACTACACACACTGAATATACTGAATTAACCTATTCACCCCTTTTCATCCATTCAG C[A/C]AATTTAAACTCTTGCCCAAGTATCATGAACCTACGAAGAGGAGATAAGGATCTGATC
WI-15719	69 A C CATTACG	ACCTTTTCATC CATTACG	TGATACTGGC AAGAGTTTAA ATT	TAATCCATCAATCTAAATCACACATACATAGATCAACAGAAAGTACCACAGTATGCTTTATTTTGA GGTATTAAATGGTTCTCTAAATCGATACATCCAAAACCTT[C]AGTTAGCAGCAAGCATCAGTTCTTC
WI-13810	106 T C AACT	CTCTAAATCG ATACATCCAA	GAACTGATGCT TGCTGCTAACT	GGATTTTATTCACATTAACTTGCACAG[T/G]TAGCAAAAAAATCAAAAACATAAAACTAAAGCCACA TATCAAGAACAATATACAATAGAGATTGAAATTTCTCAATAGCATTTGGAAGGTTTTCATAAATA
WI-15736a	27 G T CACA	ATTTATTAC ATTAAACTTG	GTTCTTTGATA TGTTGCTTAGT TTT	TCAAACTGCACACTATAAAGTGCTTTAAATGCAGCAGCAGGAGATGTGAAGACACACAAATGAAC AAGTGC[G/A]TAGTGACACATAGCTGTCAACACACAGTG
WI-13785d	72 G A ---		---	TCAAACTGCACACTATAAAGTGCTTTAAATGCAGCAGCAGGAGATGTGAAGAC[A/C]CAAAATG AACAAGTGGTAGTGACACATAGCTGTCAACACACAGTG
WI-13785c	56 A C ---		---	

WI-13785b	40 C G ---	---	---	TCAAACATGCACACTATAAAAGTGCTTTAAATGCAGCAG[C/G]AGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTCAACAACACAGTG
WI-13785a	27 T C TGC TT	---	TGTTGTGACAG CTATGTGTAC T	TCAAACATGCACACTATAAAAGTGCTTT[C/AAAATGCAGCAGCAGGAGATGTGAAGACACAAATG AACAAAGTCGTAGTGACACATAGCTGTCAACAACACAGTG
WI-13793	88 C G ATAGG	---	GGGCAGGAGGA TTTGTACT	AGAAACCAAGTATATCATAGGCCAAATAAAATAGTTTTACCCCATTTGATACAACATAAGGGATTT TACATTCAGCCTAGATATAGG[C/G]AGTAACAAATCCTCTGCCCATAAATCTATGACTTG
WI-13794	52 A G TTCTTTCTC	---	AGAATGGGCTC TTAACCTTGT	TAGTCTCTCTACAATTCCTTCAATCCATTTCTCTCTCACCCCTTTCTTCTC[C/G]TACAAGGTTAAGA GCCCATTTCTCAACAACAAACAAAACAACATAGAGCAAT
WI-15729	35 A G GTGTAGACTGC	---	CTCAGCTTCTT TCTAAAGTGCC	TCATTTAAGTGCACITTTGAACCATGTGTAGACTGC[C/G]GGCACITTTAGAAAGAAGCTGAGACTGAA AAGTCGTCTGACTTCCAAAGGAAGGTAAAGTCCCTGTTTGACGCCCGGCTGCTCATTTGTTA
WI-13424	66 G A C	---	TTTTCTCCCG AGGGTCTA	GTCCCTTGACACAAGTCTCCCAACTGGTTGGAGTTTCCCTTCTGAGGTTTTTACCCTATTTCTTC[G/A JTAGACCCCTGGGGAGAAAACACACATGTAAAGTGGCTCAGGACATGAGGCAGGCCGTTTCACAAGAT GCTGGCTAAGCGGCTTC
WI-14065	29 T C AAT	---	CAAGCTGAATC TGGGATCTC	AACTGTCTTATAAAAGGTCAGAGGCAATTT[C/GAGATCCCAGATTCAGCTTGTCTCATAAAAGAT TCAACTTCAAGTAGCACAATTTCTGTCTGCTTTTAAATCCTGAACATTTCTTGAAGCACGAA
WI-13446	22 G C TCACTCATCA	---	AAGGGAATCA AAATCAGAAG G	TGCCATGTTCTTCACTCATCA[C/G]CCTTCTGATTTTGATTCCTTCTGCTCTGTAATTTTTTCTTC TTCCCTTTTAGGGCCTAGTCTGTAGAAATTTCTGGTTTTTGAGAGTAGTGAGCCCTTTTACTTTTTT CTGACTGCCTAAT
WI-13725	56 A C TGGGTGOC	---	CCTGCTGTCTC GGGC	TCACACAAAGGCATTTGGAAATGTCACTTACACATGGTGAGCACATATGGGTGCC[C/G]GCCCGAG ACAGCAGGATAAGTTTCAACAAACTTGACCAGGCAGGTTAGAAGCAAGGCATGGTTCAGGATG
WI-15702d	107 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAAACAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAA[C/T]CTGTAACAACTACTAATGGGTTCTTTGAACAAATAGTTT TGA
WI-15702c	101 T C ---	---	---	CAAATGTTTTATGAAGAGACTCCGAAACAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAA[C/T]CTGTAACAACTACTAATGGGTTCTTTGAACAAATAGTTT TGA
WI-15702b	90 C T ---	---	---	CAAATGTTTTATGAAGAGACTCCGAAACAAAATAAAGGCTTTCAAAAAGGGGGTAAAGGGGTGAGG AAAGCATGTGAGAGAAACTGTAAAC[C/T]CTGTAACAACTACTAATGGGTTCTTTGAACAAATAGTTT TGA

WI-15702a	48 G C	AACAAAATAA AGGCTTTCAA AAAG	CCTCACCCCTT TACCCC	CAATGTTTTATGAAGAGACTCCGAACAAAATAAAGGCTTCAAAAAG[G/C]GGGGTAAAGGGGTG AGGAAGCATGTGAGAGAAACTGTAAACCCTGTAAACAATACTAATGGGTTCTTTGAACAATAAGTTT TGA
WI-13831b	113 T C	---	---	TTTTTTTTATGGATGCACTGTTACATGTTATTTAGCGAAGTGACTGGAAAAGGAGATTCACAT ACTCCACTGTATCCTCCGGTAAGTTTCCCTCTCTCTGTAGAT[C/G]GTCTCCATGTTACAGTCAAC TATAAACATGGCTCA
WI-13831a	56 G C	---	---	TTTTTTTTATGGATGCACTGTTACATGTTATTTAGCGAAGTGACTGGAAAAGGAGATTCACAT CATCTCCACTGTATCCTCCGGTAAGTTTCCCTCTCTCTGTAGATGCTCCATGTTACAGTCAAC TATAAACATGGCTCA
WI-13806	62 G A	---	---	TGATTGAGCTTAGAAAAGGAAGTCATGTTGAAATCAGAGAGAGGCCAAAACCTAGCCTCAGGT[G/A]C CCATTAAGCATGCTGTGAATGCAAGGAAAAGCTTAAAAAAATTTTTTAAGGGTGACTCCAGTAAA CAT
WI-14372	86 A G	---	---	CACATTTTCAGCAACAAATCGAGGTGCAAAACAGGGTTTATTTACATTATATTAACCTGGATTT TTTGCAAAATAATAGGGA[G/T]CTCTTTAAATAACCACTCTCTCACCTTCATGGCCAGT
WI-14373	95 A G	---	---	AGCGTGTTTTTGAGGCTGAGGACCCCAACATGACACGTAAGACTGTAACCATGGTCATGTGAGTT ATGAGCTAGGAACCTTGACGAAACCA[G/C]ACATATACAATCATCTCCCACCTCCCAACGCCTTT ACTTTCACAGCCTCTGCA
WI-14078	61 C T	AAAGAAGTAA ATTAGGAAGA GCAAGA	TGTGTGCATGT CTCTTACTGC	AGAAACCGAGAACTCAAGAACACACATGGTGATCAAGAAAGTAAATTAGGAAGAGCAAGA[C/T]G CAGTAAGAGACATGCACACAAATCGAAACAAGGGCATGGAGGAAGGACTTTAGATGGTCAAG
WI-14083	47 C T	AGACTTGAGA GCTTAAAACA ACACT	GOCTACTGGAC CTCTAAACTAG TGA	TTGCTACATAACACATTACTCCAGACTTGAGAGCTTAAAAACAACACT[C/T]ATTTGTTATTTTCACAG CTCAGTAGTTTAGAGGTCCAGTAGGCTGGCTGAGTTGTTGCTTAAGGCTTACAAGGCCAA
WI-14085	31 A G	CATTTATTTTC ATGTGTAAGA AGAAAAA	CAGTCAITGTC ACGTGCTAGTT	TGCATTTATTTTCATGTGTAAGAAAGAAAAAC[A/G]TAACCTAGCACGTAACATGACTGCATGGATAC ACGGCTCAGCACGAGGCTAAAGTCAGAAAGTGAGTGAAAAACAATAAGCATGTTGATTTAAGTGAAA TAACAGAACAGGAGGCCTT
WI-12169	121 G C	AATAAAACTT CCTATTTTCTT TTGCTT	GGGTCTGAGG TGAAAGAAAA A	GTCAAGGTTGGCAATTTTATTTCCACTTATCAAGAACCTACAAAATATTTTGTTCATTCTAAA TTTTACCTTTATTTGCTAAGTTATAAAATAAACTTCTATTTCTTTTGTCTT[G/C]TTTTTTCTTTCA CCTCAGAACCCCTTA
WI-15705	50 A G	AGAGGAGAT TTTAGACTGA ATC	AGCTGTAGTCG TCAAATACTCT AGAA	TTGTTTTTATTTGGGGAGAAATGAAGGAGGAGGAGATTTTAGACTGAATC[A/G]TTCTAGAGTATTT GACGACTACAGCTCCTCTCTCTTTGTACTACGGAGACCCTGCTTATAGCCCCCAACAGGAAATCCTCA TCTGGGTTGCCAGACAG

WI-14379	102 C T	TCTATTAAACA GGGTTATGTCA CACC	ATCATCTGTTT TGAGGTTGACA	TTTATGCTGTTGTTTCTACTGGTGGTCTCGCTCACTAATATCCAAATCCTAGTAGTATTTCTTT TACTTGTGCTCTATTACAGGGTTATGTCACACC[C]/TGTCAACCTCAAACAGATGATACT TAAATAAAACAAGCAGAAAA[C]/CACCACCATTAACAAGAGGACACTGCAGAGGCTTATGTACA ACACGTGTCGGGAGGCTGGCGCAGGACTGCCACTCACTCCAAAATTTCTTTGGAGCAGAG
WI-14102	22 C A	CGCAGAGCTG CTGTATTTAAA A	---	ACCGCAGAGCTGCTGTATTTAAA[A]/GJACAAGCGTCTGGAATCTCTCAGGGGCTGGGACCAGCTGC AGTGGGGGCTCGGCACTGCTCTCTCTCCAGGACTCTTCCACCAACCCC
WI-15937	24 A G A	AACTGAAAC GTATTTCTCC	GCAGAGATCCA GACGCTTGT	TGAACTGAAACGTATTTCTCTCA[A]/CJACACCGTAGAACTTAAGGGCGCAAAAGACTCACACCC ACCACCTAGCGGGGAAAAAGGAAGTTTCAGGTGATACAAGATGTCCTGCCATCACACCTGAAGGAT GGTT
WI-15944	24 A C A		GGCCTTTAAGT TTCTACGGTG	ATGTTTTATGATCAATTCCAAACATACAGTACAGGGAAGGTGAAATGAGTAAGAAAAAAATCAT ATTTAAGTCCCGTTAAACACTAAGCC[A]/GJTATTTATTCAAATGTGTTTCAAATACTCAGCCAGAT CACCAAAGCTCAGTCACTAC
WI-14124	92 A G		---	GACAAAAGCTCAGTCACTAC
WI-14125	88 C T	GGTTGACCTG CATAGATTTT	GGATGGCATG GCCAC	GACAAAAGGGCAGTTTCTGTAGTTCAGCAGGGGCCAGAGCAGTTATCAGAACGGTGGTTTGACCT GCATAGATTTTGGACGACTA[C]/TGTGGCCATGCCATTCTGTAGTGAAATTAATGAACA
WI-14136	120 G A	GCCTTCTCACC ATGCTCTCACA	CTTGTCTGTC TCTTGGGC	GTTATTTCTCACAGTTCTGAGGTTAGAACTGAGTCTGAGATGAGGATATCACCAGCATGGTTAGGTTCT GGTGAGGACTCTCTGGCTTACAGCTGGCTGCTTCTCACCATGCTTCACAT[G]/GCCCCAAAGAGAC AGAACAAGCTCTCTGGT
WI-14138	23 C T	TGTTGGACCA GAAAAGCT	CAGTATGTACA GTGACATAACA TAGAACA	TTGTTGTTGGCACCAGAAAAAGCT[C]/TATGTTCTATGTTATGTCACCTGTACATACTGTAAACAAGACT GCATTAATATTGTTTCTTATGATTTGTTTCAATG
WI-13551	74 G A	TCCTTCAGTAG TAGTATATTCA GACAATC	GCTCATTTCTT TTAGTGCTAAG TAATATT	GGCAGGTTTATTCATAATTTCAAACCTTGGAAAGCAACCAAGATGTCTTCAGTAGTAGTATTTCA GACAATC[G]/AATAATTACTTAGCACTAAAAGAAATGAGCTATCAAGTCATGAAAAGACATGCAAGG AACCTTAAATGGATATTACT
WI-15953b	59 C T		---	TTTTTAAAGAGTGCTCTTCACATCATTTATATTGTTATTCACACAAAACTTTTTAACTC[C]/TGTCAA AAACAACAAGAACAGATGAATAAGGAAGCCCCAGTGCTTTTGGATAGAGCCCTTCTTCAGAATCA CCTCC
WI-15953a	26 T G A T	TTTTAAGAGTG TCCCTTCACATC	TCATCTGTTCT TGTTGTTTTG A	TTTTTAAAGAGTGCTCTTCACATCATTTGTTATTTGACACAAAACTTTTTAACTCCGTCACAA AAACAACAAGAACAGATGAATAAGGAAGCCCCAGTGCTTTTGGATAGAGCCCTTCTTCAGAATCA CCTCC

WI-14631	82	G A ---			---	TGAATTCATGGACAGTTTGCCTCTGTTTGTAGTGAACCCCTCACAGCACTCTGCATAGTCGGCTTTCTGTCTCTTTAAACG/AJTGCCCTGGTCCCTCTGCCAAACTTTTAGGATTGGCCTCCTCAGGGCCTTGTCCTGA
WI-6053	24	A G ---			---	ATCACCAACCGTGTCTAAGAACAAAC/AJGJCTTCATGTCCAACTCATATCCCCGGGACITTTGTCAACTGCAGTACACTTCTCGCATTAACCTGGCTTCTGGAGGAAGCCTCTAGAGCCAGGTAAGGGGGTGAGCAGTGAGGGGTATATCTGGGCTGCCAGTGGAAACACGGAG
WI-15964	99	T A CTGGAGGTA	GCTCTCTGTCC		GACTTCTCCAC CCTCTTGC	CAGAAACCTCTTCTGTGTATTAAAGCTGATGCTAAAGTCAGAGCAGTCCAAAGGCAGGAGGCTGCCTTGGAGGTAGTAAGCTCTCTGCTCCCTGGAGGTAT/AJGCAAGAGGTGGAGAGTCTTTGGCAAG
WI-12075	103	G A GGCAC	AGCAGCTGGG		CCCCCTCTTC TCTTCTTC	CAGCTAAAGGATCACTGCAGCTAAATACAGATAGAGAAAGCAACAAAGCCAGGCAAAATACCCATCAGAGCAGTGACAAGAGCAGCTGGGGGCACGGGGAGGC/G/AJGAAGGAAGAGAAAGGGGAGGAGCCT
WI-12179	96	G A TGGAGGTCA	GGAGGTACGG		TGGAATGACCC TGTAGATGC	TAATTTAAAAACACGCOCTTCCACATAGTGCCTGAGGCATCTGCACATTTTCTTAGAAGGACATGATAGTGATGTGGAGGTACGGTGGAGGTCA/G/AJGCACTCTACAGGTCATTCGAGGAGGAACAG
WI-14651	49	C G ATTGT	CAAGAAATCAT		GGAGATATTGA TCTTTTCTGA	CACAAATAGTGAATATCTGAGCAAGAAATCATCTCTATTTAAAAATTGT/C/GJAAATAAGTCAGAAAGATCAATATCTCCCTGCTTCAAAATGACACTCCCAATTTTACAGGTAACCACTGTTA
WI-14666	105	T A ---			---	AATGTGGACTTCAAAACAAGGTTTAAACTAATCTAATACTCTACAACTCTACAAACACATTCAGAGCATATAACAAGAAATATTACAGGCAGCTAATGTATTAAAT/AJAAACCATGAAAGAAAAAAGCTTG
WI-13473	31	C T ---			---	ATCTAGATGTCAGCAAAATGGGTGAGACTGT/CJTTGTCTGTAGATGCAGTGTGTGTATGTTTCTACTCTATTACAAAAATTAAACAGAAATATGGCTTCGCTTTGTGCAATGTTTATATCACAGTC
WI-13967	103	A C AAATAAAA	AAAAGACTAC AGATACAAGG		TTGTGTTTCA TCTCCTAAAAG TG	AATTTAATAGCAGCTCTGTGTGTGATTTTAAAGAACAAAGATAAAATATGTCATTCAGCAGTCATTTAAAAATAAAAGACTACAGATACAAGGAAATAAAAAA/A/CJACACTTTTAGGAGATGAAAAACACAAA
WI-14408	60	T A G	GCAGACACAC TATTACAGGCT		TTAATTGTGA AAACTCATTTG TTACTTT	TTAATATTTCAGCAAGTTATTGCAACAGGTTGAAAATGCAGACACACTATTACAGGCTGT/AJAAAGTAACAAATGAGTTTACACAATTAATAATATTAAACATACCTTATGGGATTTGTTGAATGA
WI-13683	47	C G ---			---	TTTTGTGTTAAGAACAGCATTTTGAAAAATAAAACCTATCTGCCCATG/C/GJTTTACAGCCTTTTAAATTTGTAATATTATATAGTCGTTTATGGTACATATTGATTGTC
WI-13910b	63	C T CGTCT	CACCATGGCA CGTCT		CATTGAGATAA AGCACACTTAT CAC	TTAGAAAACTGATAAAAGCAACACAACTTTTGGGAAAGCAACCATGGCAGCTCCTTTGTGCTA/C/TJGTGATAAGTGTGCTTTATCTCAATGAAGCAACCCCA
WI-14635	22	G A ---			---	ACATGGCAGATACAGAGCTGT/C/GJCTTTGAAGACCACTGACCAGGAAATGCCACTTTTACAAATCATCCCCCTTTTCATGATTGGAACAGTTTTCTGACCGTCTGGGAGCGTTGAAGGGTGACACAGCACATTGGACATGCAAAA

WI-16002	59 T	GATAACATAA AATGATCATG C AGAATTTG	GCCATCTCCTC TTTGACTTTT	CCAAACATTTTAAACCTATGACTGGTCAATTGATAACATAAAATGATCATGAGAAATTTCA[TC]GTTA AAAGTCAAAGAGGAGATGGCTAATGCTGGGCT
WI-15361b	101 A	CCACTTGAAC TCAAGTCATC A G A	AAACTAAAC CTTTGTGCCTA AAA	GTGGAATTTTATTAGCCATCAAAATTTCCCTTACACTCAATACTGTTGAACAACAAGATAACACAT CTTCTGTCTCATCCACTTGAACCTCAAGTCATCA[AG]TTTAGGCACAAAGGTTTAGTTTTCTCGG GAAATCAAGTTTAAACCA
WI-14759	73 T	GCGTTTGACTT GTGGG	TCCACACTGC OCCG	TGAGTTACAACAAATGAGCAACAAGTTAGAAAAATTTGGTTTATTCAAACCTCCTAGCGTTTGACTT GTGCGG[TC]GTACTCAAATGGGGGCGAGTGTGGACGGGAGGATTGCAACCCAGAGTTTCATACTG CAA
WI-12535	50 A	CTAGGAGGGTT GAGGTGTAGA TAT	GCTCCACGAGA AGAGAGGAA	TCCCTAACATTTATTTAGGGTGTAGGAGGGTGTAGGTGTAGATAT[AT]CTTCCCTCTCTCTC GTGGAGCCTTACTGAAGACAGGATCGCCGTTCTTGTTTATCAGCTGAGAAAGGCGAGTCTCGCCATC TTAAAGACCTGCCCTCC
WI-13805a	112 G	AAAGGCACAC AGGGAA	CTCAGCCTGOC TTGACC	TTCCATTATTGCTTGGCTTACCAATTTTTATAGCTATTGGGAGGCGAGAAAGGGAATTTTGGC CCCAGAAACCATGAGATTTGGTCAAGAAAAGGCACACGGGAA[G/A]GGGTCAAGGCAGGCTGAG AGTCACATTTCCAGACCTC
WI-12340	18 T	C ---	---	ACACAATATAATTCATTT[TC]GAGTGATTAAACCTTATTTGTTTGTAGAACCAACAAACAACTAC AAGAAAACATTTTCAAACCTTTTTTTTTCAGGCTGA
WI-14808	52 T	ACCCACACA CTACCTGT	GAGGCATCACA ATGTTAAGATT TT	CTTTGAAACACTTTAAAGCAACAGTTTAAAGTACCCACCACACTACCCTGTT[AT]AAAAATCTTAAC ATTGTGATGCCCTCTGCATCAATTTTAGAAAAACAAGAAAACACAACTGAAGGCCCCCATGTA
WI-14816	29 A	T ---	---	AGTTAAAAAAATCGAGTCAGCATTTATT[AT]AAAAACTGGACACGCTTCTATATTGCAAGCTCAT TCAAATGCATTTATTTTGTATCCCAAGCCCTGAAACATGAAAAAATATTTACTAAAGGAATGTTG ATTACCAGCTACGACTTC
WI-12542c	71 G	T ---	---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC ATG[AT]TAGGTGATTGATACAAATACGATCCATAA
WI-12542b	70 G	T ---	---	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTCATCCATGTGAGGGCTCTAGATC ATG[AT]TAGGTGATTGATACAAATACGATCCATAA
WI-12542a	45 C	TTTAAA	TCTAGAGCCCT CACATGGAT	CCGTGTTTCATTGAAGGCTATTAGGCAAACTGAACATTTAAATGTT[AT]ATCCATGTGAGGGCTCTAG ATCATGGTAGGTGATTGATACAAATACGATCCATAA
WI-12173	57 C	GGATACAGCA GTAAAGAATA CAAAA	CCACCTCTAGA ATGTATGCTCT ATAA	CACCTAAATCATTTCTAGAAACTGGGGATACAGCAGTAAGAAATACAAAAAATCCTGC[CT]CTTATA GAGCATACATTTCTAGAGGTGGGAAAGAGGCAATAAATA

WI-14836	28	T C	---	---	TCTTGGAGGGATAGAGGACAGAGTGTTC/GTTGATTTTTCGTTTCGGTTTCAGTTTGGTTGTCATT GGTTTTGTTTTGCTAATTTGCCCCACCCTATAAAAAGCAGTGCCACCAGAGGCAG
				TTTGTGCTA	ACATTCCTTATGATAGCAACAACATAATATGATGATGGTGACACGGAAAAATACCTTAATATTTAA AGTTTGTAAGAGTAGCAACAATAATTTGAGTATATACTATAAGTGATAGAGGATGATATGAAAAA GGCTATAAAAAGCTCCAAA
WI-14856	60	A T A A	---	---	ATGGCAATTTACTTTATAGCAATGAACAATAATTTGTCAAAGGGCAATAATTTTGTCTG/G/AJAG TTAATAAAGTTAATATCTTTTACCACAAAGCTAGAGGTCAACAGTACCACCTATTATTGATTGGCCACT ACCTGGC
WI-14863	61	G A	---	---	TTTTAATTAAACGTAAAAAGGCAGGACATCCAAAGGCTCTCTAACA/T/C/GAGTGTCTGCAGCCCCA TTCGCTTTGAGATGTGAATGTGTTAACCCAGGGTGA
WI-14867	46	T C A		TGGGCTGCAG ACACTC	ACGGAGTGTCTCTGATGATTTCTTGTCAAAAAATGTTTGCCTGATTCTAATCATGAAAGAACAATT AGAAAAATCCAAATTGACAGATATTCTGCA/G/AJAATAAATGGCCTGACCTCATCAAAAAACATCA ATGTCATGAAAAACACAAA
WI-14733	98	G A A		GATGAGGTCAG GCCATTTATT	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCATAGGTGCCACTAAGGAAA ACTTCTCCATTA/CJAAAGCTGCCTGTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGTGCATCT GCCTGTGTTCTGTCT
WI-14898b	79	A C	---	---	TTTTGTACCTATTCCTGTTTCAGTGCATGTACAGGAAGAGTTGTCTCAT/CJAGGTGCCACTAAGG AAACCTTCTCCATAAAGCTGCCTGTGTGCACGTTGCCTGGGCTTTGCTAACCCCTGGTGTGCATC TGCTGTGTTCTGTCT
WI-14898a	50	A C A		AAGTTTCCCT AGTGGCACCT	TGGTATTTATTTCCGACATTACTGTAGAGGCACACATTTGGACTCTGAC/G/AJATTCCTTGCAGCAG ACATTTGTGAAGCTGCTGGTGGCACACCCATCAATCAGTGACTCCTGCAGAGGGGGCCACATG CACGATGCTCACGTGTG
WI-14907	48	G A		TCTGCTGCAAG GGGAAT	CTAGAATCTGGGAAGTCCAAGCTCAGTGCACCAATACATTCACTTCTGGTCTG/AJAAGGTCTTTTC CTGGTTTGCAGACAGATACCTTGTCTGTATCTCATCATGGCAGAGAAAGAGAGAAATCT
WI-14911	52	G A C		CAAACCCAGGA AAAGGACCTT	CTGATGCTTTGACATCTGGGCAATTGCTGTCTAGAGAGACTACTTCTCTGGGACCAGCCAAATTC TAGTGATAGTAGAGGACTCA/CJ/CCTGCACGTGGACCTTTCTATATACAGATCAACCAATCCAAAAAC CTACACCTCCAACCACT
WI-14913	88	C A	---	---	ATTTCCTTGATTGGCTGTGTAAGCCCTGTGAAGTCATGCACATCTGGACACAGTTTCTCTAGCA/G/ C/GAATTTATGTCTGGCTGTGATGGCTTTTACAGC
WI-14914	66	G C A		CAAGCCCAGGA CAATAAATTC	GTTTATTTTCAAAATGACACATCCAGATTGAAATGGGCACTTAGCGAAT/CJACTTGTGGACCACA AGACTTGTGTGAGAACATGTTCAAAGACAGTTTTTCAATAAAAAATTTTCCTTAATCAGGTCCA
WI-14926	49	T C	---	---	

WI-16083	89 C T	ATGTTTAAACA CAAACATATC AAGGAT	TGGAAAAAGATT CCAGCCC	GCATCTTTATTACCACAGAAACTCATTTATGTCTTAAATCATTTGTTTAAATATATAATATAAGCATGTT TAACACAAACATATCAAGGAT[C/T]GGGCTGGAATCTTTTCCATCTATAGAAAAAGCACTAAACCATC CATTAAGCAG
WI-14930	55 C T	GGAGGAGTCC CTCATGGAT	CACAACCAACC AATACCGC	CAGTCTGTGTTCTGGAACAGCTCTCTTTCCACAGGAGGAGTCCCTCATGGAT[C/T]GCGGTATTG GTTGGTTGTGGTATTGGGGAGCACAGGGAGGCAA
WI-14946	47 T C	---	---	TCAATACTGAAGGTGTCAAAGTGGTCTATTTGCCCCAGACATAACA[T/C]CTCTAAATCATCTCTA GATCAGGGGAGTCATAAGGACCATTAAAGGCTCATACACACAGTACTTTATGGAAGGATT
WI-15987b	80 A G	---	---	ACATTAAACACAGCACAAATTAAGGGGTCCCAACGAGGTTGGTAGTGCCCTCCACTATGTGAGGACAC TAAGAAAGATGGT[C/A]GTCTATGAACCAAGCTGCCGGTGCCTCTTTAAACCTCTCAGC
WI-15987a	32 C T	CACAATTAAA GGGTCCCAA	GGAAGGCACTA CCAACCTC	ACATTAAACACAGCACAAATTAAGGGGTCCCA[C/T]GAGGTTGGTAGTGCCCTCCACTATGTGAGGA CACTAAGAAAGATGGTCATCTATGAACCAAGCTGCCGGTGCCATGCTCTTAAACCTCTCAGC
WI-14948	56 T C	AGGGAACCTG CTAACTTGTC G	GATGATCTTAC ATCAGTTGTG GA	GAATAAAGTTCTATTGCCGTTCTTACAGGAACAGGGAACCTGCTAACTTGTAG[T/C]TCCAACA ACTGATGTAAGATCATCTCTGACCATAGCGAACCTGTAAAGGCTTGCTTCCCTCCAGCTGA
WI-16100	52 A G	CAAAAAGCTA TTTCTACAC TTGA	ACAGGAATGTC AGAAAACAGT ATATTAC	TTGTGTTAAATTCATCAAGGAATTGACAAAAAGCTATTTTCTACACTTGAC[A/G]GTAATATACTG TTTTCTGACATTCCTGTTATCAACTCTCTGAAAATC
WI-14958	83 A G	AATAATTTAT CTCTTCTTTT CAAGGG	AATGCATTAT TTGGGTTTTT	GTGATTGATCTGTAATTATTGGGATTATTATTCAACTCTAAATCCAAAGATGAAAATAATTTATCT CTTCTTTTCAAGGG[A/G]AAAAACCCCAATGAATGCAATTTTCAAGTTTCTCCAGGCTTTGAACTGC AGCAGAAAAATTCAGGA
WI-14976	35 C T	GTTGATTGCT TCGTTCAAAG	TCAAACATAAAT CTTCCATTCTA AGC	TATTTTTTAATTGGTTGATTGCTTCGTTCAAAG[C/T]GCTTAGAATGGAAGATTTAGTTTGAGGAG GGCAGGTTTGGGGTAGGCTCAGCGGGCATAGTGCCACACAAGAAAGATGCCCATCTCACACCTGGAG ACGTCCATGAGCACTCG
WI-14981	31 G T	TCAGTGGTGT TATTGGATTT T	CACCTCTGACA TAATACTTAGC ATAAA	TAATTGATTCAAGTGGTGTATTGGATTTT[G/T]TTATGCTAAGTATTATGTCAGAGGTGGAGAAT AAAGAGGAAAAAGAAACAAGTGTGGCTCTCGCATCAACGACCTGATCTTGTCACAGGAAGTTTTTGA GAGCTCACAAA
WI-14992	80 C T	TGCATTAAT GAAGCTGCAG	GCTATGTGCTC AGCTTTCCT	TGATTACATTTTTTAAATCATGCTTACCAGCCCATCTAAGCCAAATTCAAACACCCTCTGCATTA AATGAAGCTGCAG[C/T]AGGAAAGCTGAGCACATAGCACCCCACTGATCGGAAAGAAACGTA
WI-15002	72 T A	---	---	AAATCTCTTCTTTCACACACAGATGAACCTTTAATAAATACAATGCACCTGAAAATGCCTTCTTGA TTTCC[T/A]TTTCAGTTTAGGCTCAATGGGCTCTCCTCAAGGCTGACCTCAAAAGGCCAGTT
WI-15000	90 G A	GACAGAAAAA GACTCAGACT GTCTAA	GTTTCTAGTTC TGCACAAACTT CA	TCAAGCCAAATATCTGCAACAATAACATGTATTGAAAGGTATAGAAATAAACAGATGGATAGACAG AAAAAGACTCAGACTGCTAAGTA[G/A]TGAAGTTTGTGCAGAACTAGAAACAAAAATCCACCT

WI-12323	68	G A	CACAATACTT CATGTACCTAT GAAATAA	CACTGGACATA TTCCCTACCTG	ATTTGTTGATGTTGGTTAAATCTTATCTCTTTTTTATACACAATACTTCTATGTACCTATGAAATAA G/AJACAGGTAGGGAATATGTCAGTGCAGGCAACAGAGGACTCACACCTGTGCATAGACAGCACC
WI-14683	91	A T	AAGGACGAT TTAGTATCTAA AAACA	GGCATGTCCCA GTGTTTT	CATAAGTTGCATTTATTCACGTCACCGCCATCTAAAGCTACTGTGTACAGTAATCAGGACTGGAGAA GGGACGATTTAGTATCTAAAAACA/AJCAAAAAAACACTGGACATGCCCCCTGAATTGCAAGT TGGAGTTCGTAAGAATCTAC
WI-13470	100	C A T	CTGCGCTTTAT ATTGGAATTC A T	GGGAGACCATG GGTCTCT	ATTTGTTGTTTATTTAGCACCTGAATTTAGGCAAGAGAAACATTTCTACCTGAAGACTCCATGCAGT CAAAATTCCTGCGCTTTATATTGGAATTTCTA/C/AJAGAGACCCATGGTCTCCCCAAGTGAGGAAGCC AGGGCACTCAGCCCTTC
WI-14712	38	T A CA	TGAATGCTTCC AAGTACAAAT CA	TGAAAGTATGT TGATATGGTA TTGTGA	TTTGGTGCTACTTTGTGAATGCTTCCAAGTACAAATCA/T/AJCTACAATACCATATACAAACATACT TTCAATCACAACTCAAAATATAAAATAACCTACAAATCACATTGC
WI-13712	40	A C TCTATTG	TTTACTTTGTT GTCAATTTTAT TCTATTG	CCATAAGGTCT CACACTTTTCT TAT	TGGGATACCCCTTTACTTTGTGTGCTTTTATTCTATTG/AJCTATTATAAGAAAAAGTGTGAGACCTT ATGGCTTCTGCTTATTGGCAATATGCAATATAATATTGTGTGTTGTTAAAAATTTATGCAT
WI-16163	35	C T A	TCGGTGATGC AATTGAAATA A	GCTGCCAATTA CATTAACCTAC AA	TCTAAGATTTTACTCTGGTGATGCAATTGAAATAA/C/AJTTGTAAAGTTAATGTAATTGGCAGCATT GCCCAAAGTTTAAAGAGGACTATTCTTTAAACAAAGACAGTGTGCACATTTATTTTCAGGT
WI-13453	88	T A TC	AATGCACAAA ATCTTGTCTCT TC	TCAGATTTTTA CATCTCTTTCT AGCA	TTTTTTTATTTGCATTTGAGTGCTTTATTATATTGGGAATTTGCAGTGATATTAACTTTGTACAAAT GCACAAATCTTGCTCTCTT/AJTGCTAGAAAGAGATGTAAAAATCTGACCTAGTTGAACAGTCTT AATGAACCTCATTGTCCAT
WI-16167	58	T C GATTTT	CGCACTCTAA ATTAGAGATA GATTTT	TGCTCGTGGTG AATAAGATG	CGGATATAAATTATGTACCGCACTCTAAATTAGAGATAGATTTTTTTCTGATATACATTT/CJCATCTT ATTCACCAACGAGCACACCCACGACAGTAGAACAGTTCCACACCTGATAAAATGCACAAAGATG
WI-14482	17	G A ---	---	---	GCAGAACCAATTAATAA/G/AJATCTGCAAGTTTCCCAAGAAACTCTGGAACCATAGTGCCTAAT GCCCTTTAAATCGATACTAAAGGAGAGAGATAAAAGGACTGCTTGATGTGACAGTCACTGGT
WI-15069	81	T C ---	---	---	TGTAGTTCTTCAAAAGACATGTTGGCAGATAGCCAGGCCATCTATGTGTATTTCCAGTATCATGTAC GCACTAAAAAAAT/CJGTGTGCTTGTGCTGTGTGAGTGAACCATTTGCTTAAGATAAA
WI-16156	97	A C CCCAGATCGC	TGAAGATTAA CCCAGATCGC GCAGCAAGAT TACATCAGTA	AATTGTGTGCA TTTTGAAGAGA CTCCAAATAGC CTAGAGTATAG	ATCTGGTATTTGTGTATCCCAACAGTATACAGAACTACTCTATAAAACCAACCCCTTCAATA TTACACTAATGAAGATTAAACCCAGAGTCCG/CJCTCTTTCAAAATGCACAAATTAAGACG
WI-15012	59	G T ATGT	GCAGCAAGAT TACATCAGTA ATGT	CTCCAAATAGC CTAGAGTATAG TAAGGT	CATGGCAGCAAGATTACATCAGTAATGTAATAATAACAGCTTTTTTTCATTGAAGCTTTG/TTACCT TACTATCTCTAGGCTATTTGGAGTGTTCCTCCAC

WI-15100	74	G A ---				TCCTATTACAGCCAAAGAAAATACCCAAATTATTTCCAAATAAGCAAAAATTTGGAACAGACTGGA GTGAGAAAC[G/A]GGTTCCACCAAGCCCTCAAGACAAGATGGACACGGCAGCTGGTTCTTGGGGT GCATTTCTAGTGGACTTTAT
WI-14492	92	A T AATTACT	CCTTTATTTTC CCAAATATAA	GTCACCATGTT ATATTTCTTT TAAGAC		TGGTACAGAATGTTTAAATTACAGCAGGGCAGTGATTCAGTTAAATAAAATTAACATGGTGACAGCTTT CCCAATATAAAATTACTAAATTAA[A/T]GTCTTAAAGAAAATATAACATGGTGACAGCTTT TCCTTAATTTTATCGGAATCCAGGACACAAAGAAAACACCCAAAACCATGGAGACAGAAG ACGAGACACAACCTCCTCCCCAC[C]GCCTCCCTGCTCTAGAGTGGGACAAAAGTGGGGGTGAGAC AG
WI-12002c	89	T C ---			---	TCCTTAATTTTATCGGAATCCAGGACACAAGAAAACACCCAAAACCCACATGGAGACAGAAG AC[G/A]AGACACAACCTCCTCCCCACTGCCTCCCTGCTCTAGAGTGGGGACAAAAGTGGGGGTGAGAC AG
WI-12002b	68	G A ---	TCGGAATCCA		---	TCCTTAATTTTATCGGAATCCAGGACACAAC[C/G]AAGAAAACACCCAAAACCATGGAGACAG AAGACGAGACACAACCTCCTCCCCACTGCCTCCCTGCTCTAGAGTGGGGACAAAAGTGGGGGTGAGAC AG
WI-12002a	30	C G GGACAAA	GGGAGCCCTA	TGGTTTTGGG TGTTTTCTT		TTTTCAATTTATTTCCAGAAAAGAAATCACATTTTCAGTAACAACCTTACATATAGAAATTAACCTTTG TTCTGGAATGGGAGCCCTAGTTGCAGTA[C/T]GTGTATATAATAATAATTCATATTCAGGATTTTG TGAAATAGGIGATTGGGA
WI-15116	96	C T GTTCAGTAA	GGCCTAAAGG	CCTGAATATGC AATTATTTATT ATGACA		GCAAAAGCAAAGCTATGGAGGCCTAAAGGAATGGGA[C/T]GTGTTGGTGGCTTGATACTTGGT GCTTGTGTGCATGGAGCAGAAAGTCTCCTGGTCCATGCAGGGGCTCACATATTTAACTGCACATAAT TTGGCAAACTGTCTATTC
WI-15153	40	A G GCATTGCA	CCCTTATGTTG	AACTCAGATA AGTGCAGTGC T		ATTTACAGTTGGCCAAAGATCTCCCTTATGTGGCATTGCA[G/A]GAGACACTGCACCTTATCTGAGGTTA GAAAAAATGATAGCTTAATAGCCCTCTTAATGTGTAGCAAGGCAAAATTACCATTTCTAA
WI-15215	84	G C TCAAATGGG	TGGCTTTAGAA	CCAACAGGGGA AAAAGTCA		CCTTTGCTCTCTGAACCTGGGACCAAGGATGTGAATAATTTTGAATCTGATGCAGGTGAGGTATGGC TTTAGAATCAAATGGG[G/C]TGACTTTTTCCCTGTGGTGGAAAACCTGTGAGGGTTTGGCA
WI-15225	80	C T C	CTTGAGGACCT AGAAAGCAAA	TTTGATTGGCA TAATCACTCC		AGGAAAGAGTGGTAAAGCAAAGCGCATCATTTGGATGGAATGATTATGTGTACAGGACCTTGAGGAC CTAGAAAGCAAAAC[C/T]GGAGTGATTATGCCAATCAAAATTGCAAGTTGGAGATATGCTAAAA
WI-15152	51	G A ---			---	AATTTGCTAGTGCAAATGGACCCAGAAATGGAAGGGCTATGTAACACACAC[G/A]TATGCACACCAC AGCCATGTCAAGTGCACAGATCCTCTTGTGCATTCAGCTTTCTTAAAAACACATCAAAAGGCTGCA
WI-15123	55	C T TAGGATG	TGTTAGTGACA GACAGATAAA	TTGCTTAAGGG CAAACAGAC		TGACTGTATACCAAATGCTGTGCTTAATGTTAGTGACAGACAGATAAATAGGATG[C/T]GTCTGTTT GCCCTTAAGCAATTTACAACCTCACTGGGGAAGAAAACAGACATGCAACACGAGATAAAACACAAT

WI-15182	49	C A	GCACAACCAG GGCAAAATA	GCATGGGTTAA TCCAGCA	GAGACTGCCCTGTGACACAACACTAGCTAGCTGCACAAACCAGGGCAAAATA[C/A]TGTGGATTAAACCC ATGCTAATGGGTTACCTTTATTAGTAATCATGGTCCCTCATAGCATGGTCCAGATCCG
WI-15198	38	T C	GGGOCCTTGGC ACTATG	ACTTATCOGTC AGGCAGAGTAG	GTGGACCTCTACAAGTACCATGGGCCCTTGGACTATG[C]TACTCTGCTGACGGATAAGTTGGC ATATGGTTCAGATTGCTTGTCTACACAGTCCAGTTCCCTAGAGACTAGTCCGACTCTCT
WI-12601	42	T C	CATTATTGAG TATTCTTGCTT TGAT	GTTGTAGTCTT ACATGCTTACG TAGAC	TCAAGTGGTAAATAGCCATTATTAGTATTCTTGCTTTTGA[T/C]GTCTACGTAAAGCATGTAAGACT ACAACATTACGACCCATCTCTTCAAGAGGAAGTCTGGTATTATGGAACAAACATTTTGTCAATTCAGAT T
WI-14510	104	A T	TGGCAAAATA TGCATAACAA AA	TTGAAAAATGGT TAAACTGGCA	ATGTTGAGAGTAATAATGCCCTACATATTTAGTGTAGTACACCCACAGATATTTTGGGGAGAAGAG TTGTTTGCCTTTTGTGGCAAAATATGCATAACAAAT[A/T]TGCCAGTTTAAACCATTTTCAAGAGT
WI-15239	57	T C	CATTTGCAAT AAACACCATC A	GGACCTTATCT GTGGACTCAGG	CAGTGTGATGACATTTCAATGGGAAAAAGATTGTGCATTTTGAATAAACACCATCAT[T/C]CCTGAG TCCACAGATAAGTCCCGGAGAGGGGCTTCCCTCTCTCTCGCTGGTTGACGTTCCAGCGGAGT GAAGCCCTTTCTGGAATG
WI-12634	52	T C	GCATCATATG AACTGTCTAGC AGT	GGACAAATTGT AAACATAGCT AATAGC	ATGAGTTTATAAACTGGAGACAGCGCATCATATGAACCTGTCTAGCAGTATTAT[C]GCTATTAGCTA TGTTTACAATTGTCTGAAGGGTCTAGATGTGTACACCCACAGAAAGTGGTATTCCTGA
WI-15249	34	T C	GGGCTTGACAC AAAGTTCTAA AA	GGAAAGCCAG AGATTTTAAAC AA	TTTGCTTGAAGGGCTTGACACAAAGTTCTAACTTT[C]TTGTTAAAACTCTGCTGCTTCCCTGGCTGG TGAGGAGGCACAGGCTGGGCTTTCAGGTATCCACTGTGTGCCCGCATCTGTCCCTCCACTCCCCAG CCACATCTTGGCTCT
WI-12159	28	C T	AAGACACCGT GCAATGC	CCCTCTCCTCA GTGCACCTT	CTGTCCGGGGAAGACACCGTGCAAATGC[C/TA]AAGTGCACCTGAGGAGAGGGAGGGTGTGTGACTC CCAAACCCCTCGAATATTTATGAATCTAAGAGTCCAGACGCAGTTTCATCCACGGAGATCTGC
WI-12648	41	A G	CCTAGTGGCAT TAAGGATGC	TTGCTACTAAA AGTGGACATCC T	TCCOCAGATTGTATGGAAATGCCCTAGTGGCATTAAAGATGC[A/G]TAGGATGTCCACTTTTAGTAGC AACCGATGTTAATTCACCTACTCTCATGTTAGGTGCTTTACTTGGATTATCTCAGTTAAAAACCCACA
WI-12684	64	G T	CATGCTGTAA ACAGCTGTGC	GGAACAACAA AGCCTAAATGG	ATGAGAGGTAAAGTGTCAACAGTAGGCTTAAAAATATTCAAGTAAACCATGCTGTAACAGCTGTGC[G/ T]CCATTTAGGCTTTGTTGTTCCATTAGAGAGCACAGGAGGAGAAATTTAGCATAATCTT
WI-15260	75	G A	AAAGGATGAA GCTAATCATG GA	TCTCTCCAGGG AGCTTGC	TTTATAAGCTGAATGAAAGAGGTGCACACAGCGGACACTGTCTATAAGTGAACAAAGGATGAAGCT AATCATGGA[G/A]GCAAGCTCCCTGGAGAGACAGGGACAAAAATCAAGAATGAGCTGGAGAAATTA TCTGT
WI-15325	39	T C	CATGTGGCTGG GAGGC	CCCTCCACCAT GATTGTGA	AAGGTTAATGGACTCACAGTTCCATGTGGCTGGGAGGCT[C/TA]CACAATCATGGTGGAGGCAAAA GGCACATCTTACATGGTGGCAGTCAAGAGAGAAATGAGAGC
WI-13936	123	C T	AGTTGGCATTC AATAGCCTAT C	TGAAACTCCCA CATGGAGTT	TATTTAGTATTTTATCCATGGCGCTTCTCACTCCCCCTATACATTTCCAGGGTTGAGGTAGTCTACCC CCATAGGTTCAAGAACCTATGACCTGTATCTTCAGTTGGCATTCATAGCCTATC[C/TA]AACTCCATGT GGGAGTTTCATAATAA

WI-14528	62 T	T T T T A A C T T T T T C T G G A T G G T A G T A A A T	C T C G A T T A G C A C T T A T T A T A A A A A T T A A A A	T A T G C T T T A T T G A A G A A A T A G G C T A T T A A T A T A T T T T C T G G A T G G T A T A A A T T / G J T T G A A T T A T A A A T T T A A T T T T A T A A A G T C T A A T C G A G A C A T C A C T G G G T A T A A T T G A
WI-15347	74 C	G A C T T C A A A G G A A A A G A A C A A A T T T	T C A C T C C C C C A A G T C T T T G	T A T T C T T T C G G T T C G G A T G C A A A A C A A A A A T T T T A A A G A A A T G T G A C T T C A A A G G A A A G A A C A A A T T T C / J C A A A G A C T T G G G G A G T G A A G G C A G A G C C T G G T G C A G A T G G A C G A G G T C T G C A G A C G
WI-14546	95 C	C C A A T T T C T A G T G A T A G T A G A G G A C T C A	A A G T G C A C G T G C A G G	G T A T T T C T G A T G C T T G A C A T C T G G G C A T T G C T G T C T A G A G A G A C T A C T T C T C T G G A C C A G C C A A T T C T A G T A G T A G A G G A C T C A / A J C C T G C A C G T G C A C C T T T C A T A T A C A G A T C A
WI-15353	37 G	A ---	---	T T T A T T G G C T G T C T G T A T A C A A T G T G T G A A A A C / G / A J C T T A A T T C A G G A C A T C T T C C A C C T T T G T T T G G C T T C C A G T T G T A C T G C A A G A C C A G T G T C A G G C A C A T A G G C T G A T T A A T C A G T G G
WI-14580	100 G	C A T T C C C A T C T G T C T T G C A	C C G A C C A A G A T C C C T C C	A G A A T T T T T C C T T T T T A A C A G G A C A A G T A A C A G A T T A C A T C A A A C T T C A G A A C T T C T C A A A T A C C T A G T T A T T A T A C A C A T T C C C A T C T G T C T T G C A / G / A J G G A G G A T C T T G G T C G G C T T A A C A
WI-8540	73 T	G G C C T G C A T T T T C A G G C A C	G C C C T T C T T T T T C A G G C A C	C C A G C T G G A G G T G G A A T A A A T G C G G C A C C A C A G A A A A A C A C A C A G C T A C A C A C A G C C T G C A T T T G G C T T A T / C / J G T G C C T G A A A A A A G A A G G C C G A C C T C T T G A T A A A G A A T G T C T
WI-8039b	97 T	C ---	---	A A G T A G A A C A C A A T A G A A T G G C T C A A A A A T A T C A G A A T G C A T A C G C A C A T C A C G A G A A A T A C T G T T T G G T A A A A C T T G T T C A G T T A A A T A T G T A T / C / J G T G C C G T G C A T G T C A T G A T T A A A T A T C C T T C T T A C C A C A G T C A C C C T A A A G A A C C A A A G C T T A G G A C T A G G G A C A C A A C C A T G C A G A A A G A G C A G G G A G A C C A G A C A C T C T G G T T G A G A T G A T T T A A T G C C G C A G C C G A C A C C C A C A
WI-8039a	87 T	C ---	---	A A G T A G A A C A C A A T A G A A T G G C T C A A A A A T A T C A G A A T G C A C T A C G C A C A T C A C G A G T A A A T A C T G T T T G G T A A A A C T T G T T C A G T T / C / J A A A T A T G T A T G T G C C G T G C A T G T C A T G A T T A A A T A T C C T T C T T A C C A C A G T C A C C C T A A A G A A C C A A A G C T T A G G A C T A G G G A C A C A A C C A T G C A G A A A G A G C A G G G A G A C C A G A C A C T C T G G T T G A G A T G A T T T A A T G C C G C A G C C G A C A C C C A C A
WI-8044	107 C	A ---	---	C A C A A C A T T C A G A A G T T T T C T G C A T T G T G T C T C T G A T G T C T A A A A A G A T T T G A G C T T T G A C T A T A C G A T T T C C C A C A C T G A A C G C A T T C A T A A G G T T T C C C C / C / A J A G T A T G G A T T C T C T G A T G A T T A A T A A G C C C C G A A T T C T G G C T A A A G G C T T C C C A C A T T C A A G A C A T T T G T A A G G T T T T C T C C A G T G T G G A C T C T C T G G T T T G C A C A A G A A T G G A A C T T C G G C T G A A T G C T T T C C C A C A C T
WI-8550	32 G	G G G A C A C A T C A A T G C A A C A A G	T T T G T G C T T G A G T T T A C A A A T T	C T T A C T A C A T G G G A C A C A T C A A T G C A A C A A G T A / G / A J A A T T T G T A A A C T A A G C C A C A A A C T T A G T T A A T A A T C A T G G T T A A G G G A C A T T G C C A A A G A G C A A C T G A T G C C T C A G T G A A
WI-8057	87 T	A ---	---	T A T T A G A T A A A A C C C T T T G T C C G A T T C A G G A T G T T T A A T T T G C T C T C T T T A A A C T C T G T G A C T T T T C C T G G T T C A A A A G G A C A G T / A J A T G G A C A G C A G C A G A G G A T G G G G T C T G A A A A A T G A A T C T T T G T G C A A G G C A C T C T G T G G C C T C A C A A C T G C C C C C C T G T C A G A G G G A T G T G C C T T C C A G C C C T A A A G A C A C T A G G G C T T T C A A T G G A C G G G G T T G A A G C A G C C A G A T G G T A A G G

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WI-6375	28 A G A A	GGTTTATTGCA TATGGAAATC	AATGTGAGATC TTTATTCTAAC CTTTTT	AAGGTTTATTGCATATGGAATCAATAG[A/G]TATCTTTTACAAAAAAGGTTAGAATAAAGATCTC ACATTTGTAAAGGCACATATGAACATTTTATAGCAAGCACAAAGGCAGTGAGACATCAACAA TTGTGCTCAACAGATGAAATTCATAACCTTGTCTGATAAGACAAATTCAAACATACAAATCAAT TACAACAATGTGCTTATCAGCTCCCTCCACCCCTATATTTAA[A/G]CAACTGACAGTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409b	112 T A ---		---	TTGTGCTCAACAGATGAAATTCATAACCTTGTCTGATAAGACAAATTCAAACATACAAATCAAT TACAAC[A/G]TATGTGCTTATCAGCTCCCTCCACCCCTATATTTAATGCAACTGACAGTTTTGAAG GACACCAAGACAATAGGGCT
WI-6409a	73 A T ---		---	CTAATATAATCCTGGGCACATGGATTCCAAGAGAGATTTTGAGCAGATTTTATTATAGTTACTTAA CAGCTAAATAATAAGGGTGATTTAACTTACTTACAGAGTCACTAAATAATGGAGGGGAAAGGAAA GAGTAGGGCTAATCCAGTAGAGACTGAAGCTG[A/G]TATCAACCTTCCCTAAGCATCTGTCTGGTCCG CAGC
WI-6523	165 G T C C T G	GCTAATCCAGT AGAGACTGAA	AGATGCTTAGG GAAGGTTGATA	TCTCTAGCCCTATTAGGCTACACTGTAGTCACCTTCTATGAGAGCAAGGAAACAGGAAGATGGGC TCCTGGAGTCCAAACAGGATGTGGACGTCCTGGTAGTTCTCTTTTACACAACTTTTCCCTGAGA ACTGTCCCAGTCAGGTGGACCTTCACAACAACACGAACAGCTAAACTCTGAGAGAAAAC[C/G]CTG ACTTTCAGAAAGCATAAAGCTGAGAAAAA
WI-6554	195 C G ---		---	ATTGTAATTAATAATTTACATGGGCCTATTTATTAAAGGACATTTGTGTAATGTTCCACTTGTGTTTAA [C/T]AATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAGTTTGAAAAATGGGCG
WI-6558b	68 C T ---		---	ATTGTAATTAATAATTTACATGGGCCTATTTATTAAAGGACATTTGTGTAATGTTCCACTTGTGTTT AAACAATTACAAACATGTGGCTTAAATAATGTACAGATCAATGTAAACAGTTTGAAAAATGGGCG
WI-6558a	42 G C ---		---	AACCAACAAAACCTAAGAAATGGGAAAAAAGAAATGGCAGGTGAAGAACTCTTTTCAGAGAAATAA AGTTGTCATA[A/G]CAGCAATGGATGCTGTGCAGAACATAGTCCCAATAAACTTTAAGAAAAAAGGA ACTCAATGAAGTTACTGTTATATAAAACAGGAGCTCACAGCAGGGATGTAAGAGTTAATGGAAGAT ATCGTGAGCCAAAAC
WI-6629	75 T C G T C A T A	TCCTTTTCAGAG AATAAAAAGTT	TGACACAGCAT CCATTGCT	CTGCCCTGAACCAATCAGATTTAGTTTAAATCAATCAATCAAACTCCAGCTGTTTCTGCTCTTT TTACTTAGCAAGGAAAACTTTAGTGAATGCTACTTGACAAGAAAGAAAGTCAATTTCTCAAGCACA T/CJACCCAACTTGAAGGTGATTGAACCCAAAATAATGGGTGGGAAACACCAATGAGGTGGAGGA ATGAGAAAGATGTGTGGGCCAAAGCTATCTGGTTATATTTGATGTTGCCAAT
WI-6644	134 T C ---		---	TGCTAAACACCCACCTATTATTAAAGGAGAGTACTAGGAAAAACTACCAACACAGCATGTGAAACAGT TGGGCACGGTGGTAAAGGGCACAGACTCTGGAGCCACAGC[C/G]GGCTAATACACTGCAATATTTTA TGTTAGCAATTATAGCTGGTCTGTGTATTAACCAAGAGCGGTATCTGG
WI-6690b	106 C T A G C C A C A G C	CAGACTCTGG	ACATAAATA TTGCAGTGTAT TAGCC	

WI-6690a	28	T C	AAACACC ATTATTAAGG AGAG	GCTGTGTTGG TAGTTTTCT	TGCTAAACACACCACCATTAATAAGGAGAGT/CJACTAGGAAAACTACCAAAACACAGCATGTGAAAC AGTGGGCACGGTGGTAAGGGGCACAGACTCTGGAGCCACAGCCGGCTATACACTGCAATATTTTA TGTTAGCAATATATAGCTGGTCTGTGTATACCAAGAGCGGTATCTGG
WI-6770	53	A G	CAACCCCAA AACATCACA	GCTTTGGAGT GTATAATAGTA TGAATAA	GATGTTAATGACACAGATCTCCCAAAGTAATCCAAACCCCAAAACATCACA/GJAATTATTTCAT ACTATTATACACTCCAAAGCAAAATACTTCAACTGCAATCC
WI-6686	151	A G A	GCATCTTCCA AAAACAAAGA	CCTTGTAAAGT ACTATTCCAAT GTT	ATTCTGTAGGCAAGGTTCAAGCAATCAGTAGCACTAATCTTGACCAATGGGTGAGTCAGCCTCA TCACAGAGATTTTTTTTTTAATTTAGATGAAATTCACATTTAAACATGGTAACTCCAAGCATTCT TCCAAAACAAAAGAAAT/GJAACTTTGGAATAGTCACCTTACAAGGAC
WI-6761	32	C A G	GATCTAACAG CTGCAGAATG	AAAAGCTGGG AAGGAAGAAG	CCTGAGAGGCAGATCTAACAGCTGCAGAAATGG/CJACTTCTCTCCAGCTTTTGTGAACAAAAC AATTCTCTAAGGCATCAGAAAGCACTGAGTGCAAAATGGGTGTTTCAGGTACAAGTCTC
WI-6844	225	T C ---		---	TAAATACTGCCAACTAGCATTACGTCCACTCTTGCACTATTAACAAAGGGTATTTCTCCTTG GTATTTCAATGATGCAATTATACAATAACGAAAGTTAGAACTTAAATGCACCCTGATTAATTATG TAACTGGTAATTTGTTTTAAAAGCATAATAATTTGGTCTCTTTCATATAAATGGAAATTTAA TATTTCTCTGATAGTCTGAGGTT/CJATCATTATGAGTAGTGCAAGTGTTG
WI-6824	112	A G ---		---	CGGTTTTGCTACACTTAATGGGTTTTTTTTAAGGGATTTTTTTCAGGCTTTGTCAGCAACATCAA ACAAAAGGTACTGAGTACTCCACAGGGTACAGAGTCTGCCAA/GJACACCTTAGAAAAATTACAT GACACGGAGAAAATGCGCTCTTGTCTTGAAGAGCTTACAGTCTAGGGATTTGACAACTCACAGT CTTAGGAACTGGGCAAGTAAGGCAAAATCTTCATCCCTAGAGCTATTGTG
WI-6889	139	T C AATC	GAAAAATGAG ATGCAGTTAA	TCACTTTGGG CTTTTAAATTAT TCT	GTACAAAAAAGCTGAGAAGAGGCCAACATGGAAGTGTCAAGAAACATCTGATAGGTACGGACAA AAGAGCTCCTCAATCAAAAGGAGTTACATATTAGTTCTCACCATGCTAGAAAAATGAGATGCAGTTA AAATCT/CJAGAATAATTAAGGCCACAAAGTGAAACTGTGTTCTGGGGCCCTATGTTGTAGATT CTCT
WI-6911	216	T C ---		---	TCCCCAGCTCATATTTATTGGGCACAGAGTGGCACTCAAATATCTGATGAACCTGAA AAGAGGTCTCCTTAACAAGATATCATCTCCGGAAGAGAGAGTCCCAACCATATAAAATGTATGAT CAAGTCCCAGAAAACCTTTCCTCCCAAGGAATGTGTTCTAAATTTGGTTTCAAGACACACTGGTTCC CACTTTTACCACCTT/CJCATGACATTGGACAATAGTACTACTCTTTTCTAC
WI-9413	112	G C ---		---	GCCAGTCTCTAGTAGTCTAGGGACATGACCAGACAGAGCCCTGTTCTATATGAAGACAAAC AGGTGGCATACTTGGGTGGAGGATACCGCTGTATTTCCAGATG/CJAGATTTTGGTGAAGGAG ACCATGACAGATGACAAACGGAAACAGTTTCTCAAAAACAGAGGTATGA
WI-9557	74	C T ---		---	AAAAGCTTTAAAAAAAAGTGGTGCTATCTTTAGAAACACTTTTCAGCAAGATCAAGTAGCCACGCT ACAGCCCT/CJGGTGCACTCTTAACCCCTCTCTCTTT

WI-9617	37	G T	---	---	TGCTCTTTTATTTACAGTTTCACAACACACGCCGTG/GTTGGCACAGTCTACCAAAGTGCCCGCAG CGCCACGCTTGGGCGGAAGTCTCATTCTGTCGTCTATGGACTGATTGAATTTGGGATGGCCAG CTCCAGAATGTTCCACGTGGGGCCTCTGTGGCAGAGAGCTGAGCCCTTGCCACACTGGCACCA AAGAGTTGCACGATGCAGCTTGCAGTGGTCCAAAGCGGGTGTGCTGTG
WI-9657	121	T G	---	---	AATGCTGGAGAAACATCAACATTGAGTTGACATTTGTTTTCGCTGAAGTATAGTACCATCCACTAT CATGAATTTTGTTCATTACAAATGATAGAAAGCCAGATTCTCAAAATAAGT/GJATAATCTTT TGATTAATAATAATGTTTATAAATGTTTATGAAGCTCATTACATTATCTTTTTTAAAAAGTAAAAA TTTTAGAACATATGACGCTTTTCATAAATTAATGCTTTTGATATAGATTGAGG
WI-13119b	114	G C	GCTGGGA	CCTCCCAAGTA	CAGGGTCTGCTCTCTCCAGGCTAGAGTGAGGTGACACAATCAAGACTCACAGTAGCCTCAACCT CCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGT/GJACACCACACCTGGTTAA TTTTTTAAATTTTGTAAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAAACCAACTAAC
WI-13119a	51	C G	---	---	CAGGGTCTGCTCTCTCTCCAGGCTAGAGTGAGGTGACACAATCAAGACT/GJACAGTAGCCTCA ACCTCCTATGCTCAAGCCAGCCTCCCAAGTAGCTGGGACTACAGGCATGTGACACCACACCTGGTTA ATTTTTTTAAATTTTGTAAAGATAGGGTCTCACTATGTTGCCCGTCTCAAAAAACAAACCAACTAA C
WI-13112	71	C T	AGCTTTT	TCATAAAGAC TACAGACTTA	ACAGGAATCTGAAAGTTACCAAGGCAATTTTCCCTTTTAGGATCATAAAGACTACAGACTTAAGCTT TTTT/C/TCTTTTCCATATAATACACAAAATTTCTAAATATCCTTAAAAAAGAAAAATATAAATAGT TTCAGTATGTTATGTAGAGTCACATACACTATGCGCAAAAATATTTTATTAATTGAGGGAATAGGCCAAT TT
WI-12988	36	C A	CTCAGTACAA	TGGTACGTGCT	TGTTAACATTTTATTGGTACGTGCTCTCAGTACAA/CJAAACAGCATCAGTAGTGTACACTTTGAT AAAAAGGAATTTTAGCTTAGTAGAAAGAAAGCCCAAGGTGAGAGTATAATGAATATGTACAT CTTTATGGAAACTGTTTGTGTGACCATCTTTATCTCCCTGTGGATGAGATGTATGCACACACAAGT AAA
WI-13020a	108	G A	C TTT	CTAATAGTGG AACCCTGAGA	TGCTATTTCATGACAGACACGTGAGACAAATATCTTATTTACAGATGGAATAGACCCAGACATTA TTCAGTACTTTAACCACTAATAGTGGAACCTGAGACTTTA/GJATCTGCAAGGGGTTTAAATAAT GCAAATATCACATATATTTCCATTTTAAACACCATATTTAAGTTTCCATTTCTTAATAGAAAATGA TAAAAATGTTTCCCAATAT
WI-12837	87	A G	AAAGTCCA	CCATATACAT ATATCAAGGT	TGTATAAANAATCCAACTTGTTCCCAAGTACATATGCTCTATGATTTTATGCATACATCCATATAC ATATATCAAGGTAAAGTCCA/GJATACAAAAAACAGCATTTCTATGGCCAGTGTCTACAGAAGT AAGACTGTGCAAACTTTATCGTATAGTCAAAATGAGATTGCACACTAAGGCAGGATGAGGCAGAAGCA AGTTGTGTCCA

L42611b	50	G C ---			GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTCTCTCAGGTTGCCCTGTG[C/G]CTCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACCTTCTCTCTGCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTTACATCATATGATGATTCACCA CTGGAGCTTCACTTTGTTAC
L42611	34	T C ---			GTCTCAGGCCCTTCTCTGGCTGCAGAGCCGCTT[C/G]CTCAGGTTGCCCTGTGCTCCTGGCCTCTAG TCTTCCCTGCTCTCCGAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACCTTCTCTGCTATACCT GCCCATCTGAGCACCCATTGCTCACCATCAGATCAACCTTTGATTTTACATCATATGATGATTCACCA CTGGAGCTTCACTTTGTTAC
WI-1172b	179	C T A	TGAAGAAATG GCTGATACCA	ATGTGCATTTT TCACTGCAG	TGAACGTGTGGTTAAACTAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAACAGTG ACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCTTTC AAAAGAAAGACATGAGGCTTCTTGAAGAAATGGCTGATACCAAG[C/T]CTGCAGTGAAAAATGCA CATGATGAGCCTGGAACATGTTGT
WI-1172a	17	C A ---			TGAACGTGTGGTTAAAC[C/A]TAGGCAATTGGTTAAAAATCAATTTAAAAACAGGCCCTAGAAACA GTGACCACACCTCAAGCAATGATTATCCCTAGCACTCAGATTATGTTCTTGAATACCATTTTCTGCT TTCAAAAGAAAGACATGAGGCTTCTTGAAGAAATGGCTGATACCAAGCCTGCAGTGAAAAATGCA CATGATGAGCCTGGAACATGTTGT
WI-1177	35	G C A	GCAGATTGGA AGTGTGAAAA	CACCTACATTT CTGAATATTTA GACTCTTT	AGAGGCAGATTGGAAGTGTGAAAAATGAAAGAA[G/C]AAGAAAAAAGAGTCTAAATATTTCAG AAATGTAAGTGTGCCCTCAACTGTTCTTTACCCACTTAATCTGCAATTTTGAAGAACTAGATTGAAT TCCTTTGCAAAACCCCTTGCAATCATGGATACCCGAGTTAAACCCGTTAATTAAGAGACATTAACACATGG CCTGGTG
WI-1231b	141	G A ---			TCCATGGTTGGTTGCTACTGACTTGTGTAGCCCTTACTGCCCACTATGCATTGGAACATTCOCATATTC CAACTAAGCAGGAGTGTTCACAATAAACACATAGGCTCTTTATTCCTCTCTTTCATTAAATTTCTT TCA[C/G]ATTATTCCTCACCCCTGAACGCCCTTCTCTCGTAGTGACATTTTAAATCCACCTTTAC ACATTCGGACC
WI-1231a	126	T C A	GGCTCTTTAT CTCCTTCTTTC	CGTTCAGGGTG AGGGAATAA	TCCATGGTTGGTTGCTACTGACTTGTGTAGCCCTTACTGCCCACTATGCATTGGAACATTCOCATATTC CAACTAAGCAGGAGTGTTCACAATAAACACATAGGCTCTTTATTCCTCTCTTTCATTAAATTTT CTTTCACGTTATTCCTCACCCCTGAACGCCCTTCTCTCGTAGTGACATTTTAAATCCACCTTTACA CATTCGGACC
WI-472	114	G C ACAGAAAAG	ACATACATAT CCATTATACA	GACCTTTCCTT TCCAGGCC	GAAGGCAGGACTGTGTTTGGAGGACAAAAAGTAAATCTTTTATATCTTTATTTTAAATTTTATT TTTTTTCAGGCATATAGACATACATATCCATTATACACAGAAAAAG[G/C]GGGCTGGAAAAAGAAAG GTCAAGTGAGATTTCAGATATCTTAAATGCAAGGCTGACAAATTTGGGCTTGATT

WI-478	46 C T	GCATGCTGTG T TACTCTATTT	AAATGCCACAG GTGGCT	AAACCACTGCAACCTTCAAGCATGTCTGTGTACTCTATTTGTTC[CT]AGCCACCTGTGGCATTTT CAAAATATGATAATCTCGCCACCATCTGCTTTAAACACAAATAGAATCTGGCAGCAAAATATAGC ATAAGCTTACTTCTAAATCAAAGGCTACCATCAGTACCTTAGCACATTTAAAAAATAAAAAACCAAC ACTGCCCA
WI-533	29 T C	ATCAGCAG AGTACCTTTCT	CTTCCAACT CTACACAATCT T	AGCCATCACAGCAGAGTACCTTTCTAACTT[C]ATAAGATTGTGTAGAGGTTGGAAAGGAGGACAGGA CTGTCTGTGGTATAATGACCCTGTGTCCAGTTAATCCA
WI-601b	112 T A	---	---	TCACCTATCTCTTTTTGTGGTGAGAACACCTAAATCTAAGAAATGATCAATTTCAAATAAAGATGG TAGTGAGCGAACAGAGAGGTTTCATTGACTCTCTAACTGAGTACT[A]CAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTTGCTGAGTACAGGAT
WI-601a	74 C T	---	---	TCACCTATCTCTTTTTGTGGTGAGAACACCTAAATCTAAGAAATGATCAATTTCAAATAAAGATGG TAGTGAG[C]TGAAACAGAGAGGTTTCATTGACTCTCTAACTGAGTACTCAAAAACGAGCAGGTGCT CACAGTCAGGAAGCAGGTTGCTGAGTACAGGAT
WI-863	107 A G	CTCCTTCACAA CCTCACCA	CTTCCCGGTAA GCCAAGT	AACAAAAACAGACACCCCTCGGCTTCTCTACCAGTCCACATGGGTGCCAAACAATCCACATTCCT ACATCTCTCCCACTGGCTGCCTCTTCAACACCTCACCA[AG]ACTTGGCTTACCGGGAAGCATAAA GCCAAAGCATTTAGTCTTTATTGCAACATGGTGTGGCTGCAATAC
WI-919	36 G A C	ACTGCTTGCTT GTTGATTAAT	TTATTCTAATC CCACATGACAG C	ACTCACTGCTTGCTTGTTGATTTAATCAACCTAGCC[AG]GCTGTCTCATGTGGATTAGAATAAAATA AACACAAAAATGAAACACACAGATTGCTAACAAAGCAGATTCTTTTTTCAAGGCACACGTAAGAT AATAACTTCAA
WI-991	37 A T	---	---	TGCATTCAATTATGCACCAATAAATCACTCTGTACAT[AT]CATTATTGTATTTCAATTATCACAAAAT TATGAGTGAGGATGATTGTTATCCCTATTTACAGATGAGAACACTGAGACTTAGAAGAAGTATCT TTCCAAAGTCACAAAGTTAGTGACAGAGCCGGGATTCGAATCCATCAACTGAATCCAGAGAAAAT GTTCTGCATCACTGTACAACTGACTCTCTTTTCTCTTTGAAAACAAGG
WI-1011	70 G C	CAGTATCTGA AGTTTTGTCT CCA	AGGAACACCTA CAAAATGACTT CT	CTTCTGACCTGTTTGCAGTGGATGACTGTTTTGAAGGCTCTGTCTAGTATCTGAAGTTTTTGTCTCC A[GC]AGAAGTCAATTTGTAGGTGTTCTCTGGCGTTTTTGTCTAGCTTCCATTTCTCTAATACACTGC CGTCTAAGGGAGGCTTGCAGAGCATTTATCAGATGGCTGTTTGTCTGCAATCTGTGCACTGAAG
WI-5381	178 A T	---	---	TTCAATGCAAGGTTCCATGAGTTTACAGAACTCAAGGAAGAAAGGCCCTAGAGATGACACCAGAA ATGAGAGTGGCTTGCTCATGAAAATTGGACAGCATGTTCCAAAGCAGAGGGAACAGCATGGAGAAGA AAAAATCATACTCTATCCACGTGCAGAAACTGGCAATTAGTTTGT[AT]TTTACTAAACACAAATGT TTAACTTGGGGTCCACAAACAAGGATATGTTGGCAATGGTATTTCTGTGATG
WI-5791b	76 G A	---	---	CTATGTATTCATCTAGCAAAAAGCAAGACTATTTGGATAAGTTTCAAAAAGATGAGAACAGGTCCTA GAACCTCAG[G]ATCGAAAGGAAGTTTCATCTAGTCCATAGACCTTATCTCACTGACCCCAAAAGGTA AAAAATAAAATAAAGTAAAGAACTTACATCAGATTGTGCATTTCTTATTTTGGCACCCCTGTTTGT TAGGAA

WI-5791a	44	C G	---			CTATGATTCCATCTAGCAAAAAGCAAGACTATTTGGATAAGTTTC/G/ACAAAAGATGAGAACAGGTC CTAGAACCTCAGGATCGAAAGGAAGTTTCATCTAGTCCATAGACCCTATCTCACTGACCCAAAGGTA AAAAATAAAATAAAGTAAAGAACTTACATCAGATTGTGCATTTCTTATTTTGGCCACCCTGTTTGT TAGGAA
WI-5406c	120	C T	---			CACCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC/C/TTTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGGACTCTGTGAAGAGGAAGAAAGGAAAGGAAAGAGAGGCA GG
WI-5406b	118	C A A		CCAGGATGTC AAGGTGAGAA	AATGAGAAGT GTGGGCTCAT	CACCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAGAGCCACTTCCACAGATGCAACAGGCC TTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAAC/C/CTTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGGACTCTGTGAAGAGGAAGAAAGGAAAGAGAGGCA GG
WI-5406a	42	A G	---		---	CACCTGCTGTTGTCCATGGGTGCCACAGACTCTTCCAGAAG/G/GGCCACTTCCACAGATGCAACAG GCCTTTGAAGGAGCCAGTTCTCAGCATGAGCCAGGATGTCAAGGTGAGAAACCTTATGAGCCAC ACTTCTCATTTCTTAGAATTTCTTGGACTCTGTGAAGAGGAAGAAAGGAAAGAGAGGCA GG
WI-5798	48	G C T G		TTTATCTCCC TTGTTTCTTT	ACTGTTAGAAA ACCAGTATTTT TCAAT	CCATTCTCTCTCCCTCTCCCTTTATCTCCCTTGTTTCTTG/C/ATGAAAAATACTGGTT TTCTAACAGTGTGCTGGTATGGATACTATGTTATAACATGCATAGTTCTATATGGGTATCA
WI-5415	54	T A T T T		TCCTCATGAAT TCATCTTTTCAG	GGACTAAATCA TGATCCGATCT	CCTGCTAATAATAATTTAAGCACGATTGTCTTCATGAATTCATCTTTCAGTTT/AT/ATAGATCGGAT CATGAATTAGTCCAGGCTTTTAGTTGTAATCGAAATTGGA
WI-5437	41	C T G		TCCCAGAGAA AAATCCAAGA	AGTTTCTAAAC ACAAAATATG GTTTAAG	TGTTTTAACCCAGGCAGACCTCCCAGAGAAAAATCCAAGAG/C/CTTAAACCATATTTTGTGTTTA GAACTCCTGTGCCAACCACTCTTGATGTGAGTGAC
WI-5481b	131	A G C T G C A G T C G		TGTCATTTATG CTGCAGTCG	TTACTTCCAGG CTCCAAGTATT	AAGCCAATTTACATTAAGTTGATGAATTTGAAATTTTACAGTATCTAATGCATGGGCATCTGTTTCAAC TCTCTGTTTTCAAGAGGTAGTATATGTCTGAAAAATCTATTTTGTCATTTATGCTGCAGTCG/G/A ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
WI-5481a	29	G A AATT		CCAATTTAC ATTAGTTGATG	CCCATGCATTA GATACTGTAAA ATT	AAGCCAATTTACATTAAGTTGATGAATTTG/A/AAATTTACAGTATCTAATGCATGGGCATCTGTTTTC AACTCTGTTTTTCAAGAGGTAGTATATGCTGAAAAATCTATTTTGTCATTTATGCTGCAGTCGAA ATACTTGGAGCCTGGAAGTAAAGACTTGGCTATTTTCACAATTA
WI-5492	38	T C	---		---	TCATGAGTCTTTCTTCAAAGATGCTGTTTAAAGTCCCAT/TC/CAAGAAAGGATCCCCATGGCCTAAT GAAGATGTACCTCCACCTTAGGATAATTTGCAGACCAA

WI-5826	134	T C	---	CCCAATACITTT TTCAGGTGAA	---	TATTTTTTTTCTCAATTCCTGGAGCACACCATGCTCTTTCTATTTCATGCTTCACATTTATTTTTT TTTACITTAGTTAAATGCTTTTCCCTTGATGTAGCAATGGCCAGTTTATACATATTTCTTTAGT[C] TTTCAAATTAATGCCACCATAGAAATAATTTCTAACCAACCAGCCAAACAGCCTCACTCTTCCCTT CCTGGTGCAITTTACTCTTTACAC
WI-5546	40	C T	A	GGCACCAGCCT TTTTAGAGT	CCTGTATTTTA GCAACATGGG	CCTTATAACCCCAATACITTTTCAGGTGAAAAAGGGGAAAAC[C]TACCCTATGTTTGTCTAAATACAGG AGTATAACAGCATGACATGTTAAGGGAATTACAAATGCTTGAGTGTAAATCTGATGTGGGAAATAT TAGAAAATTAAAGCGAGAGAGGCA
WI-5552	97	C T	---	---	TGCACAAATTG OCCAGG	TGTTGTCTGCACCTCCCAACAGTGTCAATGAGCCTCAAGGGTTTGTATTGACGGGTATGGGT GGGGCTATCGGCACCAGCCTTTTAGAGT[C]TCCCTGGCAATTTGTGCACTAGTGTACAGA
WI-5836b	161	C T	---	---	---	TAA GTT GATTTAAACACTCTGTGCCTCAATTTTCTCACCTATAAAATAAGATAATAGTATCTAAAA AAAAAGAGAGAGAAATTAAGGTGGATAGACATGAATAACTCTGATGATCTGTTGATCCCTGAA TCCTGCAATATACACATGATTCAATGAT[C]TCCATTTTGAATAATGAGCTTTTGAATTGTTTCCCA ATG
WI-5573	58	C T	---	GTTCAATAGG AGGTGGGA	TGAACAGTTGG AGAGTAATGTG TC	TCGGGTATTAGGATGCGTTTCAACCTCGATGATGGCGTTCAATAAGGAGGTGGGGA[C]T]GACAC ATTACTCTCCAACTGTTTCATCAGAACACITTCACAGCG
WI-5850b	134	G A	---	---	---	CAGGACCTTGGAGCCTTGTGTTTGTCTTCCCTCCACCCCTCACTCTTCTCTGCCTGCCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCACGCGTCTATCTCTATATGGGCAATATCCAATGTCCCATTC[G/A TTTTGCCATTTCCCTGTATATCAACAGAGAGCAGAGGGTGG
WI-5850a	92	C T	---	---	---	CAGGACCTTGGAGCCTTGTGTTTGTCTTCCACCCCTCACTCTTCTCTGCCTGCCCATGGGTGGAGC CTCTCTCAGGCTTCCCTCTATGCA[C]T]GCGTCTATCTTCTATATGGGCAATATCCAATGTCCCATTCG TTTTGCCATTTCCCTGTATATCAACAGAGAGCAGAGGGTGG
WI-5612b	125	A T	---	CTATTAATGA GCATCGTGTCA TTC	TTCTCTTGAGA AACCTAAAC ACTG	TGCCTGATTGACACATAGTTATCTGACAGTAAATCATTCTAACATCAACATAATCTTATTCTGCCTG TCACACTAATTTGCAAAGCATTCAATGATTGACATTAATGAGCATCGTGTCAATTC]A/T]CAGTGT TAGGTTTCTCAAGAGAATTATGCTGTTCTTCCCTGTAACCTCAAGTA
WI-5612a	44	T A	---	---	---	TGCCTGATTGACACATAGTTATCTGACAGTAAATCATTCTAACATTC]A/CACAAATATCTTATTCTGC CTGTCACACTAATTTGCAAAGCATCAATGATTGACTAATATGAGCATCGTGTCAATTCACAGTGT TTAGGTTTCTCAAGAGAATTATGCTGTTCTTCCCTGTAACCTCAAGTA
WI-5636	26	A/C	---	GCCAATTTTAT CCGCAATAAA	CATCGAGGACT TTGGGAA	TGAGAGCCCAATTTTATCCGCAATAAA[C]T]TCCCAAAGTCTCGATGGAGGCATTTTCAGAATCGGG GCAGGGGAGGCAGAAAGGTGAGACAGATGTGAAGAAC

WI-5865c	103	C G ---			---	TTAGAAACCTCCATTTATCTGCCATGGTACATCTTTTTAAGAATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTTCTCTATCAAAAATTAAAC[G]AAATATTAAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCCCTTCA GAGAAGACAGACAACCTAAATAATTCAGG
WI-5865b	99	T A ---			---	TTAGAAACCTCCATTTATCTGCCATGGTACATCTTTTTAAGAATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTTCTCTATCAAAAATTAAACAAATATTAAATATTTTATTTACAGAGGAA CTCAGAAGCCAGAAAAAATGACCAAGACACAGTCCAGTCTCCATCTTCAAAAGGTCACAGTCCCTTCA GAGAAGACAGACAACCTAAATAATTCAGG
WI-5865	165	T A ---			---	TTAGAAACCTCCATTTATCTGCCATGGTACATCTTTTTAAGAATCTTTTTTTCATTTATGCATTC ACTGACTCACTCACTTCTCTATCAAAAATTAAACAAATATTAAATATTTTATTTACAGAGGAACTC AGAAGCCAGAAAAAATGACCAAGACACAGTAAACAGTCTCCATCTTCAAAAGGTCACAGTCCCTC AGAGAAGACAGACAACCTAAATAATTCAGG
WI-5874	76	T G	CATAGCATGG ATAATATTAT ACAGAAAAA	CCTAGTAAGTT TCAGTCAATTG ATATGT		CTCAGACATTCATTTTATTAGTTGTTAATTTTGTGTAATTTTCATAGCATGGATAATATTATACAGAA AAAAAATTT/GTACATATCAATGACTGAACTTACTAGGTAGCAATTTGTTTGTCAATTTGCT CATGGAGCCGACGTTTCCAGTCTTCCATG/A/TTTTTTTCATAATTTACTCTCTTTTCTGTC ACAATGTTCTGCTCGTATTTCAACTCTCATTTGCTGATTGGATGGTAGTCATAAAATATGGGTGATTC AGAAAAAAGTAAATG
WI-5752	36	A T	CAGCCTCTCAG TTTTTCCATC	GACAGAAAAAG AGAGTAAATT ATGAAAAA		TTAGCAGAAACAACAACAAAAATGTCACAACACTGCAGTAAAGAAGTGTTCCTCCGATAAAATAC/GJC CATTAGGTATTAGATAAGCATCCCATAAACATTGTTGAAAAACGAAGCCGAGTTTCGATTACACACA GTTGCTGTTTAACTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGCGTCCCACGAAA CATTGTTGAAAAACGAAGCCAGTTTCCGATTACACACAGTTAGTGTCTGTT
WI-5760b	61	C G ---			---	TTAGCAGAAACAACAACAAAAATGTCACAACACTGCAGTAAAGAAGTGTTCCTCCGATAAAATACCCAT TAGGTATTAGATAAGCATCCCATAAACATTGTTGAAAAACGAAGCCGAGTTTCGATTACACACAGTT GTCGTTTTAACCTCTCTAAATCCCGATAAATAGCCATTAGGTATTAGATAAGGC[G/A]TCCCACGAA ACATTGTTGAAAAACGAAGCCAGTTTCCGATTACACACAGTTAGTGTCTGTT
WI-5760	187	G A ---			---	AAATCTGGCCTTTTCTCTTAGGAGGAGATTCTCACCATTGGGAATCTTG[A/G]TGCAAGTTAGAT CCCACCTCACTATTGAGAAGCTAAAGGTAAAGACTACTCTCAGTCTTCCCTTGCTG
WI-5944	52	A G	TTCTCACCATG GGAATCTTG	GGGTGGGATCT AATCTGCA		GAGTTAATGAATCCTGTTCCCTCTCTAAACCTCTGTTCCCACTTACATTTCAGCAGATATT CTTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGCTGTAATTTGATCATTTCAAGAGTGTGAG TAATGCTTGGTAC/TJTTGCTGTCGTGCGGTATCTGCTCCAATCACCCATTCCACITTTATTTCTCTATTAT GCTGAATGAAACGGTTATATTACAG
WI-5967b	148	C T ---			---	

WI-5967	165	CT ---				GAGTTTAAATCCTGTTCCCTCCTAAACCCCTCCTGTTCCCCCAACTTCACATTGACGAGATATT CTTTCATGGGTTATTTGCCCAAGTCATGAGGAGATGATGTAATTTGTCATTTCAAGAGGTGTGAG TAATGCTTGGTACTTGTCTGTGCCGTATC/TTJGCTCCAATCACCCATTCCACTTTATTTCCATTAT GCTGAATGAAACGGTTATATTACAG
WI-6093	53	GC ---				GGGTAAGATCCAGAGCCACAGGTGAACCTGCCGGTATTGAAGTCTTTGGGCCA/GC/GTCTGTAATG ATCTGACTTCTCCAGAACCCCTCTTCTCTGGAAGTCCAACTGTGCACCTGAGCCCATTTGTAGGGA GCATTTGAACCAAAACCCAGGACACTGCTGACATTTGACTTTTCAGCAAACTTGATTGACGGGTGAC ACACCATGCTTCGAGAAAGGAATGAGG
WI-6141	80	TC AGGTACTT	CTTCTTAATTA AGCATCTACA		TGAAACCCCA GACAGTG	GACTGTCTCAAGAAAAAATAATGAATAATTGAATTAATTAAGCACCTTCTTAATTAAGCAT CTACAAGGTACTTAT/C/CACCTGTTCTGGGTTTCAATCCTCTTACCTTTTAGACTTCAGGAAAT CAGAAAAATGCATGAAACAGGATTGTTACATGCAGAGAAATAGGGGGAGATAAAAAATTTGTCTTTT CTC
WI-6450	45	T G TGCACA	CCAATGACTT ATTCTATATCT		TTGTTTGAAT GTGTGGTACTT CT	ATAGGACAGTTTTTCTTCCAATGACTTATTCTATATCTTGTACA/T/GJAGAAGTACACACATTCCA AACAGAGCCAGGCTATGCCAGGGTGGGATTATTTTCACGGTCACTGTAATATGCATGTAAAGACTA TTTTACTGGCCTTCTTTATGCATAAAACAGGATTGGTCTATTCAACAAACATGTGTCAATACAG CAGTTGTCATGTCCCTCTGGTACTAGATATAGTCTTTATAGAATATGTGGTTTAGAATAAAGCCACA AATTATCTATAAACACA/C/TJAAAGAACGAGGCTCAAAAGTGAACAAACGGCCTTAGTTTC TAAGTGAAGACTAAGACGATATAGGAAAAATATAATCCGTGACCTCTTA
WI-6461	88	CT ---			---	GAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATTC/TTGGTCACACAGGGACTTTCTGGGCT ATGAAAATAGTCTATTTCAGTGAACACTAGTTATCATAAAGACATGCAAAACCTTTTCACAGTCTT CCTGG/GJAJAATATCTCACAAAAATTAATTATAAATTTGGCATGCGACTTTCTGATTTAGCCTGACAGG ATTGTTCCCTT
WI-7466c	141	G A TTTGTCCTGG	TTTTCACAGTC		AGTCGCATGCC AATTATAAT	GAACTATCCTTTAGTGGTGCCACATTTTCTATTCTGATTC/TTGGTCACACAGGGACTTTCTGGGCT ATGAAAATAGTCT/TJATTTCAGTGAACACTAGTTATCATAAAGACATGCAAAACCTTTTCACAGTCTT TGTCCTGGGAATATCTCACAAAAATTAATTATAAATTTGGCATGCGACTTTCTGATTTAGCCTGACAGGA TTGTTCCCTT
WI-7466b	80	T C GTC	GACTTTCTGGG CTATGAAATA		ACTGAA	TGCTTTTAAAAATAACAATGACCACCACCTGACACCATAGTCTGTCTCCATTTGCCACGTCTTCTCTC AGTAGAATAAGACAGGGACTTTGCTGGTGTCTATCT/C/JTCTCTTCAGAAAGACACTTTGGCCCT CATAGGCATTCATAGATATTGTTGAATGAATGTGCTTTTGGCATATTGATTCCTACATTTGATACA TTCTCAGGAGGGACATTTGGCCTAT
WI-9814	104	C A ---			---	CCTCTAACCAAGAAAAACTTGACTTCTCAACTCAAAATACCCCTTCTCTAATAATTTTJAGJGTAACCA AAATATTCTTCAAAATAAATTAATCTTTTAAATTAGAAAGAACCAACAGTGTAGAGGTAGTACATTCA CCACC
WI-9720b	55	A G ---			---	

WI-9720a	47 A G ---			CCTCTAACAGAAACCTTGACTTCCTCAACTCAAAATACCCCTTCTCTGATATAATTTAAGTAACCA AAATATTCCTTCAAATAAATTAATCTTTAATTAGAAGAACACAGTGTAGAGGTAGTACATTCA CCACC
WI-9825	123 A T ---			CACGCTCTAAGGCAGGATGTGGCTTATGAGATACTTTGCAATGCTGTGTCACACACCTTGAATCTGCC TGCTGGCTCCCTTACTTTACCTCTCTGTCATGTGCAGATGAAGGCTCAGGGTCTTATGAGGATTAG TAAGATCTCTTTCTAAGACAGGAGAGATTATTTACAAGAAGAACTCACCAGGGTTAGTTTGCAAT TAAGAAITGCCAGTCTTTTGCTGTCATCATCTTGAACATTAATCCACATG
WI-9748	74 C G ---			CCACTTCAGTAAATCAATTTGTAGCACTTATTTCTAAAGATTCTAAATTTTATATGTTTACCCCTT GTCATT[C/G]TCAGACCAAGTACATGTTTTCACACAGCCATCTTCTTCTCCTGGAATCTTTCAGAAT TACAGTTATGATGTCTTTTATATTCCCA
WI-9943	91 T C ---			TGAGGCTATGATTGCAGATTGTAGTGACTAATACTTATTAAAGCAATTTCAATGTTGTGGCACTGTT CGTTGTGTTTTATATCCATCTT[C/T]C/ATTTTAAATTTCTACTGAGCAGAAAAAAATGTATACATT AACCTTTGCTCCCTATTGTACCTTTTAATATTGCAATTCACACCTTCTCTTTTGTCAATTTAGGGA
WI-9891	39 T C ---			AGGGGCTTCACAGATCCGTACAGTCAACACTGCCTCCTT[C/G]AGTGAGCCTGTGAACCAACCAAGAC GGCTGGTCATCAGTGTATCCTCTTCTTCCGACAACTATCTTTAAAGAAAAAAGAGTGT CTTTGAATGTATCCATTTATCCCCAAATAATCTTGTTTAAATTCCTTATTAGGCCAAATCCAAT GTGCTGAAATATCTGCCAAGCATGTCAATCTACACAAAAGGATTGTGAAA
WI-9897b	84 C T ---			CTCAGAAATATTCAGATCTTCCCCAAATGTCATGATTTCTGTCTCAACATCCTATTTTCTCTCAAAC ATTTATCTAGCCTGT[C/T]AAGTCATCCAGTGAGGCTGTTTATCAATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAAATTAGCATCTTATTTTGTACCCACATTAA
WI-9897a	83 A T ---			CTCAGAAATATTCAGATCTTCCCCAAATGTCATGATTTCTGTCTCAACATCCTATTTTCTCTCAAAC ATTTATCTAGCCTGT[C/T]AAGTCATCCAGTGAGGCTGTTTATCAATCTATGTGAAATTTTGAGCA ACCCACAGGATTAGAAATTAGCATCTTATTTTGTACCCACATTAA
WI-9935b	115 C A ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGTCACACCTCACAGAACTGGAAGGAGT CTGACTGTGTTCTTATGGGTGCTTGGACTGGCAGGGGGAGTTCAGACA[C/A]AGCCAAAGAAAAAGCC TGATATTAAGAGGCACCTTGCAATTA
WI-9935a	42 C T ---			AGATAACCCCTGGAAAACTAGAAGAAATTAATAACGTGTGGA[C/T]ACCTCACCAAGAACTGGAAGG AGTCTGACTGTGTTCTTATGGGTGCTTGGACTGGCAGGGGGAGTTCAGACACAGCCAAAGAAAAAGCC TGATATTAAGAGGCACCTTGCAATTA
WI-9983	146 C T ---			COGTGTTAGTGCCAGAGTCCATGCTCTGGCCACAATGTTAGGCTGCCCTCCCCATTTCTTGTCTTGA TTCCCCAAACCCCAAGGTTCTACCCCAATCTGATCAATGCTGACTAGGTCATGGCTGGTCAGGGTAA AGCATTATGA[C/T]AGACACAAGACAAAGAGGTTAAAGTTGCTGTCTCAAGAGAGAGACATAA AAACAAATGGATCTGGAACTAAGTAAGGCTTCGAGGAGGAGGTGAGCAAGG

WI-10019	139	A T A T C T	TGATGTAATGC TATGTAGCAA	TGATTACTGT GCTTAGGGA	ATATCAGTGGGTTGAGTATACAGCAATCTATTGTTTATTATGTGTGCTATAAATCAATGTTCTTA ACATTCAAATAAGATCTTTTGTCTCTGCTCAGATGCTTCAATGATGTAATGCTATGTAGCAAT CTA[A/T]TCCCTTAAGCACAGTAATCAAGGCCTTCTACCCCA
WI-10020b	122	T A T T T	GCGAGAAAAG AAATCATGAC	GACTGTTAATT TATTTAATCAT TAGTCTGG	TTTACTTCATTGTCATCTTGACTCGTATTAAATAAATTATGTTAACTGGCTCTGAAAAGAATTTAGGC ATGCATAGAGAATAAGCAGTGTATTTATGGCGAGAAAAGAAATCATGACTTTT[A/AAAAATACC AGACTAATGATTAAATAAATTAAACAGTCTAGGGTCCGGAAGTGGCCTAAAGCACGTTAGTGGCCT CCTTAGA
WI-10020a	39	T C A T A A A T T	TGTCATCTTGA CTCGTATTAA	AAATTC TTTTC AGAGCCAGTTA AC	TTTACTTCATTGTCATCTTGACTCGTATTAAATAAATT[A/T]GTTAACTGGCTCTGAAAAGAATTTA GGCATGCATAGAGAATAAGCAGTGTATTTATGGCGAGAAAAGAAATCATGACTTTTAAAAATACC AGACTAATGATTAAATAAATTAAACAGTCTAGGGTCCGGAAGTGGCCTAAAGCACGTTAGTGGCCT CCTTAGA
WI-10064b	170	C T T T T A C A T G	CCTTTAGATAT ATTGTGATTGT	ACC TTTCTGAA GCCAGATTTC	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGGCATTATAATAAAT ATAATTTGCAGAGCATCTCTCTCTATGCACCAGATAATTGTTGGTGACACTCTGTTTATCCAGTATCC CTACTCCTTTAGATATATTGTGATTGTTTACATG[C/T]GAAATCTGGCTTCAGAAAAGGTTAGGTGTT T
WI-10064a	54	C A C A G G G A A G G	GTAGCAGGAT CAGGGAAGG	GAGATGCTCTG CAAATTATATT TATTAT	TCTGAGTCTTTCTGAGACACTTGCCATGGTCAAGGGTAGCAGGATCAGGGAAGG[C/A]ATTATAATA AATAATAATTTGCAGAGCATCTCTCTCTATGCACCAGATAATTGTTGGTGACACTCTGTTAATCCAGTA TCCCTACTCCTTTAGATATATTGTGATTGTTTACATGCGAAATCTGGCTTCAGAAAAGGTTAGGTGTT T
WI-10289	29	T C C A A A C T C T T	TCTCCTGTCCC CAAAC T C T T	ATTCTTGTTGT ATTGAATGGAA TTAA	CCAGGGATTCTCCTGTCCCCAAACTCTTA[T/C]TTAATTCATTCAATACAACAAGAATTTATAGAA TATGCACCACATGCCACAAAAGACACCCCTTATATTAGT
WI-1319	40	A T A T T C T T T	TGGCACTTAG AACATAGTTT	GCCACACACCC CTATGGT	AAGAAAATCCTTTGTGGCACTTAGAACATAGTTTATTCCTTT[A/T]ACCATAGGGGTGTGGCTTATCT TTTACCTGGCATGGCTTAGGTCTCTGTTTATAAATTTGGTATCTTTTGGCCACAAAAGTGTGTTCTGAC AGCTTATGATCTCTATTTTAACATTAAACACTGGTTCAGATGTTTAAAACTTGTGAACCTGCAGC
WI-10316	104	T C C T C T T	CTGTTGATTTT CTACCTCTATT	GC TTTGGAATG TATCCAAAAGT TT	AGCAACGTGTACAAC TTAGTGAGGTGTAATCAGAAGCATCTATATTACCAGTCACACCCCTG GACTATAGTCTGTTGATTCTACCTCTATTCTCTTA[T/C]TAACTTTTGGATACATTCCAAAAGCAT CATGGTCACTTCCAGTTATGAAGGATGTTTAAAGCCAGCC
WI-2572	61	C T ...	...	...	AGTGAGTTGTGCACAATTTTGGAGACATTCTGTGACCCCAACTTAAACACTTCTCCACAC[C/T]AC AAAGTTAACACTTCAGTTACCAGGTGATGATTGAGCAGA

WI-10368	31	C	T	TGAAGCAACC AGGTCTTGTT	CAAGATATTAT ATTTATCTCT AAGAGGGG	GAGGAATGCCCTGAAGCAACAGGCTTGTTC/TCTACCCCTCTTAGAGAATAAATAATATATCTT GAGATAGGAGGAGCAGCCTGAGGACAGCTGGGTTTTTCTACCCACTGGAAGCAGAATATCC TTCAAAGCTTTTCCAGTGAGTCATGTTGCTGCTAACTATATGACCCCTGATGGATTGCCCTTTCAGGG T
WI-10391	32	A	G	CTGCTCAGGT ATGACTCCCA	GGGAGTTAGGA GTCAAGAAGTT GA	CCTCCCGTTCTCTGCTCAGGTATGACTCCCA/GTCAACTTCTGACTCCTAACTCCACTCCTGGTG TCTGCTCCAGGGGACGCATCTGACACAGCCTTTTGGCTTGTGTGACAAACAGAACATTGAGAAAG TGATGCTGCGTGACCTCCAGGATA
WI-10567c	146	A	C	GTTACCCAGA GTCTTCTAATA GCAA	TGCCGCTTCCA GTAGCT	AGCGATGAAATTTATATGTTATGCCCTGACTAGCGGGTGCTCAATAAATAATATATCTTTTTCATATT TTCCAAATTAATACTAGAAATTTTCCACCAACAGAAATTTTAAACATTTTAAAGTTACCCAGAGCTTT CTAATAGCAA/CJAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-10567b	82	A	C	GGTGCTCAAT AAATATTATT CTTT	AAAATCTGTT GGTGAAATTC TAG	AGCGATGAAATTTATATGTTATGCCCTGACTAGCGGGTGCTCAATAAATAATATATCTTTTTCAT ATTTCCAAATTAATACTAGAAATTTTCCACCAACAGAAATTTTAAACATTTTAAAGTTACCCAGAGT CTTCTAATAGCAAAAGCTACTGGAAGCGGCAAGAAATTTAACCCCT
WI-11153b	84	C	G	CAAACTTCAA ATTGCTTTAAG TACTTTA	AAATCCAACA GTCAAGGTCTT C	CGTTGGGAATATTTCTATCTCACCTAAATATG/C/AGTGATTAATAATATACATTTTAAACAACTCAA TTGCTTTAAGTACTTTA/C/G/AGAGACCTTGACTGTTGGATTTTTCATTTTCTTTAATA AAACATGCATATTTAAGTTGTGACGCAAGATGACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTATT
WI-11153a	33	C	A	GGGAATATTC TATCTCACCTA AATTATG	GCAATTTGAAG TTTGTTAAAT GTAT	CGTTGGGAATATTTCTATCTCACCTAAATATG/C/AGTGATTAATAATATACATTTTAAACAACTTC AAATGCTTTAAGTACTTTACGAAGACCTTGACTGTTGGATTTTTCATTTTCTTTAATA AAACATGCATATTTAAGTTGTGACGCAAGATGACTATATGTTAATTATCTGATATCAGCATCCCTT TATGTATT
WI-2616	125	T	C	CACAAATGTA ACAAAGAAATG ATCC	CCATGGCTGTA GTCCAGT	GTTGTGAAACTCCAGTATCATTTCCCTCAAAACACGCTTAAATCACAATCACTTTTCTTTCTGTGTA GAGCTCAAACTCAGTCTGAATGAAATTTGCTGCACAAATGTAAACAGAAATGATCCTA/T/C/ACTGGG ACTACAGCCATGGAGAAAGCAATGTAGTCAGCAAAATGTTAACAG
WI-11163	58	C	T	CAAGTGAATT ATGACCAAAA TGAGA	TGCTCTTTCA TTTGAGGTTTT T	TGACTCAAAGGAAACACACAAAAAGTTTCCCAAGTGAATTTATGACCAAAATGAGA/C/T/AAAT TTGTAAAAAAACCTCAATGAAGAGACAAATATAGTTCAAGATTGAGTTCAATATTGT ACCTACAAAATAGGGATAGTCATGGTGTGGCAGACTTTTCTTCTTTTCTTTTGT/GT/CTCTTA GAATCCATTTTGTCTTTTGGCCAGCATCCCTCTCCCATATTTTAAAGGAGAGAAATTCACCTTTTCT CTGTTGGATGATCACAGGTTCTGCTCTCCCAATCCAGAGGCGGACTATTACCCCATGGGGTGCAT AGAGAGGATTAAACAGGGTGATGCCCTGCAATGGGAATTTTGAACCC
WI-10656	59	T	G	---	---	---

WI-11169b	154	T G T T T T	T T A A C C A A G A G T T T T C A T T C	C T A A C T T A A A A A T C C T C A T T C A A A A T A T A A	C A G C A T A G A G G C T G T T A G T G A C C T T G A G T T A G A T T T T C T C T A T C G A G A A A G C A A T A A G T G A A A G T A A C T G A C T T G A A A A A A A A A A A T T A A G C C T A A A G T A A G T G C T T T T T A A C C A A G A G T T T T C A T T C T T T T T T T T A A A A A A A G A G C A G A C A [T/G] T T T A T C A T G T G T T C T G A T A A T T T T T A T A T T T T G A A T G A G G A T T T T T A A G T T A G C A T
WI-11169a	95	A G T T G A A A A A	A A T A A G T G A A A G T A A C T G A C	A A A C T C T T G G T T A A A A A G C A C T A C T T	C A G C A T A G A G G C T G T T A G T G A C C T T G A G T T T T C T C T A T C G A G A A A G C A A T A A G T G A A A G T A A C T G A C T T G A A A A A A A A A A A T T A A G C C T [A/G] A A G T A G T G C T T T T A A C C A A G A G T T T T C A T T C T T T T T T T T A A A A A A A A G A G A C A G A C A T T T A T C A T G T T C T G A T A A T T T T T T A T A T T T T G A A T G A G G A T T T T T A A G T T A G C A T
WI-10685	25	A G ---		---	C A A G T G C T T G G A C C T T G G A T A G G T C [A/G] A C C G G C T G A A G G T T G G A C A G T T G T T G T T A G G T T G G A G A C C A A A A T T C A G T C A T C C T G T A A T A T A G A T C T T G T C C T T T T G G G T T A C C A C T A G G G T C A C T A A A G A G A T G G G A G A C A G T C A A T C T T G T C T A A A T A A T T C C A A A A T A G C C A T G G G T T G G A C A A A A T A C A A G G T A G T G T C T C T A A C T T T A A T G G G C A T A
WI-10686	133	C T A A G G	T G C C C C T G T O C A A G G	C A A T C T C T A A A T T C A T G T G T A G A C A C A	A A T A A C C T G T G G C A C A T A A G C A A A T A C T G A G C C C A T A C A G A G T G T T T A T G T T A A T A T A T G A A A A A A G T C A A G A G A C A A G A T A T A G T T C T G C T A G A A T A C T T G A A A T C T G A T G C C C T G T C C A A G G [C/T] T T G T G T C T A C A C A T G A A T T T A G A G A T T G A A T G A A A T G G C A A A T T C A G A A A A G G G
WI-11175	77	T A A	A A A T G A T T C T T T C T G C T C A A A G	C T G T T C T C A C A T T C T T T T T G A A A A	G G T A G G A T G A T T C T A G A A T G C C A C T T T A C A G C C A C T G A A A T A T A T T G C C T C C C A A A T G A T T C T T T C T G C T C A A A G A G [T/A] T T T T T T A A G T T A T C T A C T A T T A T A T T C T G C T T T T T C A A A A A G A A T G T G A G A A C A G T A C A A A A T G T T C A G T A T A G C A A A T T A A A A T T A A T T A A A A G T A A G A A A A A A G A A G C C A A T T T G G G C
WI-10694	144	A G T A T G A G T T T C	T G C A A A T G C T T T A T G A G T T T C	G G C A T T T T G T A A A G G A G G A A A	T A G A G A G G T C T T C A G T T C A G G T T G G A G G G T G G T G A G G T G A G A T T C A C T T C T T A G A A G C A C T G G C T A T G T A C A G A A A G A T A A A C T C T G A G A A G A A C T C A G T T C T A A A G T T C A G T C T T T G C A A A T G C T T T A T G A G T T T T C [A/G] T T T C C T C C T T T A C A A A A T G C C A T C A A T T C C T C A A G G A A A A A A A A A A A A G C T T T C T T
WI-2716	23	T C C	T G A A T T C A T C C A G A A A A A C A G	T C T C T T T T C T C T C T T G T T G T C A T T C	G T G A A T T C A T C C A G A A A A C A G C [T/C] G A A T G A C A A C A A G A G A G A A A A A G A G A A T A A A G G T T T T T G T A T A C G A C A A G T G G C T C A A G C A A T T T T C T G T C C C A G T G C A T G G A G C A G T G
WI-10719	115	T C G C C A T T C T A G	T G A C T C T C A A G G C C A T T C T A G	G C A C T G C C A G C A G C C	C A G G C C C A A C T C T G T C A T T A A G T G T T T A G A A C A G A C A C C T C A G T C A C A C A A A G T T T C T T G T A T G T G C C C A C C A T A A C A G T T A C T G G A G G A T G A C T C T C A A G G C C A T T C T A G [T/C] G G C T G C T G G C A G T G C T T T T C C A G C C T G C T G C C C A T A A C T A A
WI-10721	40	A G C T T G C C A	T G G C T C T G C T A C T T G C C A	G A A C T C C C A C A T A A A T A A A T C T C A	C A A C C A A T T C A G A T T A A T T T T T G G C T C T G C T A C T T G C C A [A/G] A T G A G A T T A T T A T G T G G G A G T T T C T G A A G A T T C C C A T G G T A A A T A G A T A T C C T C T C C C T G C T A G G T T T T G A A G A A G T T G A A

WI-11204b	88 T C ---				GCACGAAATTGATTAAATATTGGCTGACTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAGAAAAAATTTTCCACCTTTT/CJATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAATAAGTCTGAGGAAATTTATTTCAGAAAG GCAACATC
WI-11204a	80 T A AACTT	GTAAAAAGGG TGAAAAAGAAA	TGATCATTAA AATGTACATAA TACCTTT		GCACACGAAATTGATTAAATATTGGCTGACTTTGAGGAGGAGAACAGGGAGTTGAGGTAAAAAGGGTG AAAGAAAAAATTTT/CJATTTTAAAGTAACATAAAGGTATTATGTACATTTTAAAGTGAT CAAAAAATTTTAAATTGGGAAGAGATTTAGTGAATCAGAAAAATAAGTCTGAGGAAATTTATTTCAGAAAG GCAACATC
WI-10732	80 C A ATTGGTTCACT	GCTGTGCTTC	AAGAACAATG CATAACAGAA CTTTAA		ACATGATTTCCTTTAGTGGTCAAGCTTCCTACCCCAAGAATATCCCTGGTTTATTGCTGTCTTC ATTGGTTCACT/CJATTTAAAGTTCTGTTATGCATTGTTCTTGAGTCCACATAGGTGTTAATCATTTCCA CACCACCTCTGTTAAACTGTC
WI-11206	127 A T ACTC	GGTGTGTTTT CTGTATGTACA	GAGTGACAATC CTAATGGTTGG		TAGCTTTTCTTTGTACGAGTGTATATAAGAAATTAACCACTCTGTACATTTTGTAAAAAGATAGCACAG AGAGAAGCATTAACAGGCGACACACAAACATGAGGTGTGTTTCTGTATGTACAACTC/ATJCCAA CCATTAGGAATGTCACTCTCATATATAGACAGAAATTCAGTGGTGGTGAATTTGAATTCACACATGGA ATAAGTCTA
WI-11215	68 C T ---				GAAAAAAAAGTTTTAATTGGATTGCTTAGTTGCTTAAATTTGACCTACTTTCAGATTATTTTAGT [C/J]ATTTTCTATAATATTTCTTGTAAGTGATGGATTTCTATAAATTAAGGAACAGATATTT ACACAGAGAAGACAGGATTGCTTGAATTAGTATAACATTTCTTTATCCAAAGCCCCATTCACCATGT TTT
WI-11219b	89 G A AGAGAAA	GAGAGAATAT TCCAAAAAGT	GGTCTCTAAT TTTTCTACACT TTCT		ATGAAAAATGCATTAGAAGAAATTGGAGGATAAAATTTGAGAGAATATTCCAAAAAGTAGAGAAAAA GAGACAAAAGAGATGAAAAATAGGA[G/A]AGAAAAGTGTAGAAAAATTAGAGGACCATTTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAAAGAGGCAAGAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11219a	18 G A ---				ATGAAAAATGCATTAGAA[G/A]AATTGGAGGATAAAATTTGAGAGAATATTCCAAAAAGTAGAGAA AAAGAGACAAAAGAGATGAAAAATAGGAGAGAAAGTGTAGAAAAATTAGAGGACCATTTCTATACAG TCCAATATTTGAATAATAGTTATTCAAAAAAAAAGAGGCAAGAAAATGAAGGGGAGAAAAATCCAC AAACATCTC
WI-11222b	136 G A GGCTGG	CATACCACTGC	CCTGGTAGCCA AGTTGTGA		AGCCACAGTGGGAATCATTTACACTACCGAAATCAGCAAAATGCTAAAAATTTGGGCTTTGGATTTTGT TTTTGTTTTTCCATAGACCCCACTGTTGAACATTTGTTAAACATTTACCAGCATACCACCTGCGGCTG G[G/A]TCACAACCTTGGCTACCAGGAGAACCTTGACACAGACTTCGTAATTTGCTTTACAGGCTACTGG AAAGCC

WI-1122a	25 C T A	GCCACAGTGG AATCATTTAC	TTTTAGCATTT GCTGATTTGG	AGCCACAGTGGAAATCATTTACACTA[C/T]CGAAATCAGCAATGCTAAAAATGGGGCTTTGGATTTT TGTTTTGTTTTTCCATAGACCCACCCTGGTGAACATTTGTTAAACATTTACCAGCATACCACCTGGG CTGGGTCAACAACCTTGGCTACCAGGAGAACCTGACACAGACTTCGTAATGCTTTTCACAGGCTACTGGA AAGCC
WI-10775	39 C T	TTTATGCCATA TTAATTCATTA CACTC	CTAGATGTATT TGCTAAGAAA ATATGATG	TTGCAAGTTTGTTTTATGCCATATTAAATTCATTACACTC[T/J]ACATCATATTTTCTTAGCAAAATACA TCTAGACACCTGGCACTCAGTAAGGGATATTCCTGGCACGATAATCATTTGTTATCATTTAGACATTGCA GGAACCACCATATGGATGGATAAATGTGTTGTTTAAIGAAGGCAAGCAATTA TTGCATGCATTTATACGAAAGGAAATTAATAATCTTCTTATAGTTGAATTTTAAAGTAAAAATAAA GTTATACATATATACAAAAAGTTGTAAGTATAGTAACAAATGAATTAAGAAATTTGTCAGTGGTTGC TAGTACAGGAATCAAAATTTGGACTATGAACA[A/C]GACATAGTTGCTAAGGATATTCACACAAATAT TTCATGA
WI-11226	165 A C ---	GCAAGGGAGG AACATTTACA G	CTGGTGACATC AGAGATGGAC TTGAGGGACCC TGGA	CAGTGGCTGGCTACTGACAAAACGTAAACATCGTGGAGGTGGCAAGGGAGGAACATTTACAG[A/G]G TCCATCTCTGATGTCACACAGGGCCAGGAAGGTTGATCTGGAG TGGGACACACTGCTCTAGACC[C/T]TCCAGGGTCCCTCAAAAGTGGGTGTAAGGCCCTACTGCCCT GCCCTGGGACGCAGAGGCATCAGGGCCTTAGTCTCTCTGGGACAGTGAAGGGCCACCACC
WI-10789	21 C T	GGGACACACT GCTCTAGACC	CAACCCCTAAG AAACACAGAA ATG	ACAGAAAAATGCCTAGGCTTGTAGCAAGAGAGGAAAGCATCTTCATGGCAGGAATTC/TJCATTT CTGTGTTTCTTAGGTTTGTTGGCTGGCCATCAGTTCAACTCAGCCCTGTCCCTGATCCAGCAACATT TCCGTAACCTACCTCTAGAAGTCATGCAAGAGAAATGATGA
WI-10810	58 C T	CATCTTCATGG GCAGGAATT		GGACCAACACAGAAATTAAGTGGCA[T/C]JAGGGTTTCTTAAACTATTTCTGCAGAACATTAGTAAAGT TTAAATAAGGATCAGGCTACCAGGAATACAGTTAGGGAACATGTGGATGAATATTTCTTTAGTAGAG GACTTCTAAAAGGCTATAATATTTGGATACATTAGGCTCATTATGAATCTCAAAAGGAGCATGTAGT AGGGCATATCTAA
WI-10828	23 T C ---		---	TATGCCCTCCCAACGAGCCATCCACGCTGCTCTTAGCACAAAAAATAGAATACATCATTTCTGAATG GGCACATTAATCTGCAGGCTCTCC[G/C]TTTCTAAGTCACCTGCAGTTAGGCTGCAGACACTGTGTA TACCATATAATCTGATTTCTGAGCAGGAGGGGAGGCAGATGAGAGAAGGGCTGCTCCGTGAAATAC TAGTCCG
WI-10832	91 G C	CATTAATCTGC AGGCTCTCC	A	GATTTGAGTATTATCAAAATTTGCCAAAGACCATTAAACAGATTTAATAGTTAAAGCCAAACTATA AAGAAATTAAGTGTTCAAAAGTGTTAAAT[C/T]CTTAATACCAATTTTATAGGGCCACCATTAACTT CTGAAGAAAGGTGACAGCATATGCAACTAAATTTCTAAAGTCCAGT
WI-10834	96 C T	AGAAATTAAGT GTTCAAAAGT GTGTTAAT	TGGCCCTATAA AATTGGTATTA AG	GGATGATGTTCTGTGGTCCCTTAT[C/J]AAAGCCTCTTGCAATCCCAATGTGTAAATTTATTTATCT TGGTATTTCTCGCTTACCCATAGTCACCTGTCAAGTGTCCACCT
WI-2287	24 T C ---		---	

WI-2296	81 A	GA	TGTTACTTTGA TTCCTTGCTCT	GCAATCACAC AGCTAACTGG	TGGAGGGTTAGAAATGCAGGTGGCATCCTAGAAAGGCTCAGGCTTTAGAAATAGATTGTTACTTTGA TTCCTTGCTCTGACAGCCAGTTAGCTGTGATTTGCAGAAAGTTACATTTGTTGTTG
WI-2300	77 G	T	GGCACAGAAG CCAGTCATAC	GGTGGGTCAA TTTTAAAGCA	TTTCATCATGCTGCTTCCTCGGAATTTCCCTTTATTTAGCGGGGCGAGGTGGTAGGCACAGAAGC CAGTCATACGTTTGCCTTAAATGACCCCAACCATTAAGAAATAGCATTCA
WI-2371	55 G	T	GTCTTGTTCTT CCAGCTTCT	CAAAGATTGAC AGCCACCAC	CAATGATCCCCCAACATTTCCAGGAAAGGCTGGCTTGTCTTCCAGCTTCTGTTGGTGGCT GTCAATCTTTGACATTCCTTGCTTGCAGCTGTATAATTCGAATCCCTTGCCTCCAGCTTTACATGATGT TCTCTCGTGTGCTGTG
WI-2395	122 A	C	GAACATATTT GTAGAAAAAT TACTATCCAA	TCACCTTTCTA TTTATTCTGAA TTCA	GGGGCACAAATTTAGCTACAGTGCATATTTAAAGATAACATAGAAATATCATATAAATACCTGGTTTAC TGAAATCTGAAAACTTAGGATGAGTGAACATATTTGTAGAAAAATTAATCTCCAAAGCTGAATTC AGAAATAATAGAAAGGTGAATCATCTTATATCATTTAAAGAACTAAATATTAGTAACAATCTTTA CATTTACACAAACCCA
WI-2437c	192 G	A	---	---	CACGAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCAAAAAATTTCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGAGAGCTGTG GTGCCAAGGACGCATTATG
WI-2437b	179 G	A	---	---	CACGAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCAAAAAATTTCCCAATGCTCTAA ATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACAGCAATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2437a	128 G	A	---	---	CACGAGCCACCACCCCTACAACCTCCTGTGGGGAGTCTGGCTTTGATTATTTGGGGACAAAAATAATTT CAGCTTGAAGAGAGAGATTCCAATCACAACCTTTCTAAATAATAGACACCAAAAAATTTCCCAATGAGCTC TAAATAGATGGACTCAACCCCTTCTCCTTCTGCAAGAGGCAATCGACGAACATCACAGTGGGCTGTG GTGCCAAGGACGCATTATG
WI-2440	71 G	A	GCAACCTACT GACAATTTAA TTTAGTT	AACAACCTGCG TATTGGTCTCA C	CAGTAGGAAACGGGTTCTTCCTTAGACCCCTCCAGAAAAATATGCAACCTACTGACAAATTTAATTTTA GTTGAGAGACCAATAGCAGAGTTGTTACCTGCAGAACT
WI-1356	123 T	C	TGTTTAGGAA ATAATGACAA GAAAAA	TGGTTACAAC GTACCAAAACAT G	CTGTAACCTACACACATCCTCCTGTAACCTCTAGGTTACTTGTATAACAAAAACAATGTAATGCT ACATAAATAATTGTCATATAATTGTTTAGGAAATAATGACAAAGAAAAAGCCCTGCTGATACAT GTTTGGTACAGTTGTACCCAGCCATTTTCCCCCAATATTTCAATCCACAGTTGGTTAATCCACAG AAACCACGAATG
WI-2886	46 C	A	CAGAGTCTGG GGGAGAAGA	TTGGCATGCTT TATCTCGTT	ACAGTTAAGAAAGGCTGCAGCCGTTGCAGAGTCTGGGGGAGAAGAAGCAACGAGATAAAGCATG GCAAAGACCACGCTGAAAGTATCCAGGGTGTGTATGTGCACATAGGAAGATCACTTACCTCAGCA TAGGAGGAGGGCTAGGCAAGGAAGGTGTGAGAAAGCAAGAGGAGCGGT

WI-2906b	77 T A ---			CCTGAACACCTGGAGCACTCCCTCCCTTGGACACCTTCATCTTCTGCTGGAACCTTTCCTCTGGAATGCTCTTTCCCTCTT/A/GAGCTTTGCTTGGCTTACTTTTCTTTTCCCTTAGGTTTCAGCTTCAAAAGTGACCTCCTTAGAGTTGGTTTGTGACCAACAAA
WI-2906a	50 A C TCTTGCTGG		GACACCTTCAT	AGAGCATTCCA GGCAAAAGT
WI-1736	175 C T ---			CCTGAACACCTGGAGCACTCCCTCCCTTGGACACCTTCATCTTCTGCTGG/A/CJACTTTGCCCTGGAAATGCTCTTTCCCTCTGAGCTTTGCTTGGCTTACTTTTCTTTTCCCTTAGGTTTCAGCTTCAAAAGTGACCTCCTTAGAGTTGGTTTGTGACCAACAAA TACTCCTCATCTCTCATGTCCTTAGACGTACTCAGATTTCCATGCCCTGAAACATTTATTTCCTAAAT TAGATTTCCACCCCGAGCACTATTTACACAGAAACAGCATGGAGCAGTTTGGAGCTGGCTCTTAGA GAACCTTAAAGGACAGTGGTTTCCATCTGCTTCCA/CJTAGAGATCTAGGGTGTCTTTTGGAAACC ACCTTGG
WI-1851	136 G A GTGTTAAGTA TTG		GCATTGAATT AACTATAGAT	AATACCCACGTCCTAACACCATCACACTGATCATCAATCAGGTTTAAACATATTATCTGGGAGG ACACAAACATTTAGACCATAGCATTGAATTAACATATAGATGTGTTAAGTAATTATTAACATGGTA CA/G/AJACAACCTCAGTTTAACATTGCTAGTATCCATGTGGATACCATGTACCTTCTTACATCATG TGA
WI-3000	62 G A AGAGACCCC		CCCAAAACAC AGAGACCCC	CTGATGTTTGGGAAGCACTGTCTTACATCTCTAAATGTGAGCACCCCAACACAGAGACCCC[G/A]T GAGCTTAGTCAATCCTATAGTGGCAGTACCTGAATCAGTGCCTGGTGCATAGTAGACACT
WI-1754	177 G A TAGTC		TTTTCTCCCTT CTTAAAGAGA	ATGGATCTGCTCAATTATAGTCCAGATAAACAGCCCTTCTCCCGCCACCCCGGATTATTTTACT TAAGGGTTTAGCAAAATTCACCTGACAAAGAGTTAGGTTTCAACATTGACCCCTCATAAAGTGATTTT TTCTCTTCTGTGTTTGTGTTTCTCCCTTCTTAAAGAGATAGTC[G/A]CCAGAGGCAATTCGACTTTCTGT AGCCACAAGATT
WI-3167	37 T A TAGATT C		AAATTC AAC ACAGATCTAT	ACAACACAGCAAAATTC AACACAGATCTATTAGATTCT/AJACCCCATCTCAAAACTATCACATCAA AGAAGCAAGGAGACATATTACTGGTGAGGAAGCCAAATTCAA
WI-3208	140 G A AGATAAAGA		GTGGAGTGGGC	CAAGCACACATTCAGGCAGTGGCAGGTAGGGAAGGTGGGCAACTTGGCGACGAGAGAGGGAAG AAGTTACAGACCGTTGGGTAGGATAAGTGGATCCAAACCCCTTTGTAGGGCAGGTGGTGGGCGAG ATAAAGA[G/A]CCAAGCCCTAGTTTGAGTGACACTGTGGGGATTCAAAG
WI-1775	47 C T TTTTCTCTG		CCTGCATGGTC TTTTCTCTG	ACTCCACCACACAGTTTGTGAGCCAAACCCCTGCATGGTCTTTTCTCTG[C/J]TTTACATCATTTGTGATA AATCTCACTGACACATCAGTGTCTCTGCCACCCCA
WI-3402	55 G A ACAT		AGCATATTCA TTGATTTCCCT	CTGCCCTTTACATCCAAAGCCAGTTACTCGAGCATATTCAATTGATTTCCTTACAT[G/A]CAAAATGCTC CTTTTAAAGTCTCAACTTTTAAAGCGGAAGTTGAGACATGCACAAATAGATTTCCTTAGGA

WI-3416	33 C T	CAAAGTTGTA GCATTCAGAA GTC	ACGAGCACAA CTACCTCTAAG AG	TCTGGTCTCTCAAGTTGTAGCATTTCAGAAGTC[CTCTCTTAGAGGTAGTTGTGCTCGTCTGTTAAAA TATGTTTTCAAGATAGTATCTCCCTGTTGTCACCTCTCCCAACAAGTGTACCAACAGCATTTGTTAAG GAAATGTGCAATGCTTGCTACCTCTGACGCACAACATAATTAATCCCATTTGCCCTAAAAAGACCAGG
WI-3453	70 C T	TTCTTAGGCC ATCAGAGAA	TCAATTTTCCC CATGACTTC	TCCTATTCTACAACAACAGAAATTTAACAATAATGAAATCAGCTACTCTTCTTAGGCCCATCAGAG AATCTGGAAGTCATGGGAAAAATTTGATGCCATGTGAATGGAGAAACAGACAGGCATATATGGAG AATTACAGTTTACCAGGGACACAATCCCACTTCAGAGCCATCATCTGTAAAGAC
WI-3474b	109 G A	---	---	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACTTAAATCATCAAGTGTGTCAACTGGTTTGA GTCAGTTTCCCTAATTTTAGCAC[AGJGTAATTTAATGAGGTGGTGGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3474a	90 A G	AGTCAGTTTCC CTAATTTTAGC AC	CAACCATCAAT TTCTCCCA	CATGCTAGGTAGATCTGATCATGAAGTTTGAACAACTTAAATCATCAAGTGTGTCAACTGGTTTGA GTCAGTTTCCCTAATTTTAGCAC[AGJGTAATTTAATGAGGTGGTGGGAGAAAAATTGATGGTTGCG TAGTTGAGTTTCTGTCCACC
WI-3502	79 C T	CCTGGTTTCT GGATGTCT	GGTGACCTG TCCTCA	TTTGACCCCATACATGAGAAATAAACCAATAAGAAATGGTGGAAAAATAAACGGGAGAGACCTGGG TTTCTGGATGTCT[CTTGAGGACAGGGICACCCAC
WI-3500b	146 G C	GGTTTCTAACC TGGATATAAA CATCT	CCAGTCAGCC TTCCAT	TCACGGCAAGTTCTGCAGCAGTGTCTTGAACCTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGTGAGCCACCTAACTGTTTCTGCTTAAAGTTATCCAGAGGTGGTTTCTAACCTGGATA TAAACATCT[GCJATGGAAGGCTGCATGGATGAGGTCACAAA
WI-3600a	78 T G	CCATGCCCTG ATAGTTCTG	GGAAACGAGTT TAGGTGGCTC	TCACGGCAAGTTCTGCAGCAGTGTCTTGAACCTCTGCTGCTTCCAGAGTCTGATTATCCATGCCCTG ATAGTTCTGT[GTGAGCCACCTAACTGTTTCTGCTTAAAGTTATCCAGAGGTGGTTTCTAACCTGG ATATAACATCTGATGGAAGGCTGCATGGATGAGGTCACAAA
WI-3678	125 G T	---	---	TAAATCATGCTTATTTTCAAGGTAATCCACTCACAATAGGCAATTGATGTGATCTCTTTCTGTAA GAAAAGCTCTCATGCTCTTCTGAACCTTCTACTTACTGTGCTGTTATGATGCACCT[GTJCCCTTTTGG ATAGATGGTTGATAGGAGATGGTTGTTAAAGACACAATTTACCTGTGTGTTTCAGGCAGAAATAG ACTCTCTCTGTGTAATCACTGAATGAGTTCCAAAAGCCTTTATGTCTTAC
WI-3687	67 A C	---	---	AAAGCGATGTTGAGATCCACATCCATGAAAAAGTAAAAACACACACACAAAAATATGACATAAAA T[ACJAAAAACTACTATAGTTTATGAAAAATGACTTCCAAAAATTCAGAGAAAAAGTCACTTAAACAGG ATTCTCAATTCATCCAGAATACTCTCTGTCTTCACTTAACTTTGACTGCACAG
WI-3735	72 T C	CCTCAGTTATG TATCAAAATGA AAAC	GGCTCACCAT CATGTITTT	TCTAAAATGTGAACCAAGAAATCTGACACGACCTAACTGCCAGTCTCAGTTATGTATCAAATGA AAAAC[TCJACACCGGTTCAATGAAAAAACAATGATTGGTGAGCCATGTCCTTATTTAATGAAAA GATCTGGGCAATTAACCTG

WI-1819	51	C T	---	---	---	GAAAAGCAGGAAGCCAGGACAAAACCTTTTGAAAAAGTCTTTGAGCAC[C/T]TCGTGGATCCG AATTTTAGTGTGATTTGGCAGGCAATGCGGGTAACATGTTCCAGTGTTTTAACTTGCACAGAATTGC CAGATTAGCGATTGTTTGACTTGTTCCAAATTAATGAAATGTGGAAAAAAGGGTGGTAACTGTT AAGCCTGCTGCAATGTTTAGACACGAGGGTGGGGTGGGAGGTGGAATACC
WI-3746	116	G A	---	---	---	GGCTATTACATGACACTGGGCCAAGATCTTGCTCCCTTTCTTCAATAGATAGACTAACTAGAAA ACTGCCCTGGCCAGGAAGATGGTTGCTTCATCATCTCTGCTCTGC[G/A]GCCCCAGGATAAAGCA GGCA
WI-3867	49	T C	CA A	TGACCAATGTC TTTAGAAGCA	TAAGATAACC ATACTAGGTAC ATCCG	AGCAATGAGTTAACTCCTTACATGAACAGTCATTTAGTCTTCTTGACAA[T/C]CGGATGTACCTAGT ATGGTTATCTTATCTGACAGACAAGGACACTGTGACACAGAGATTGTTACTTTGAACAAGACACACAGT CATTAAAGTGGAGAAGCCAGCAATTCATCAGGCTCAGTGATCTGCCAAACCAACCCCTCTGCTATAG CATC
WI-3898	25	A C	G	---	---	CAATGACCAATGCTTTAGAAGCAG[A/C]GGAGAGGACACCCAGACACACACAGGAAGGAGTGAG GTGAAGATGAAAGCAGTGTGACGACAGCCACAAAGGTGAGGAAGCAAGGGTGTCTGGCCACT
WI-3901	114	A G	---	---	---	GGACCAATGTCCTCAGAAAGTACATTCAAGCCCTGGACGGTGTCTTAACTGACACTGTGACCTCAGGCA AGTCATGCTGCTTCCCTGAACCTCGGCTTCCCTCACCTGACAAGTGG[A/G]TATCATGTGCTACACTGC AGTGTATAATGCTGCAT
WI-3914	99	C T	GC	TGATTCTTCTC AAGACTCACA	TCTAGAAGCAA TGAAGGATGG	CTGAGGAGATTGATGCTACTTTACCTGAGGAACCTTTTATTACCTCCCTGAGTTTGTGCCTTGCAA GACATTGCTGATCTTCTCAAGACTCACAGC[C/T]ACCATCCTTCATTGCTTCTAGACCTATACTAG ACTCAAGTCCCGCAGCAGGCCCTTAAAGGTAAAGGTACAAAGTGTGACCCATGGGAGGTATGTTACGCTA CAAAAGAG
WI-4019	33	G A	A	CCAGAGCGT CCTATGAATC	AACAGCAATA ACAGGAACAA ATG	CCACTCCCAGGCCAAGAGCGTCTCTATGAATCAT[G/A]CATTTGTTCTCTGTTATTGCTGTTACAGAGT GGCAACTCTTGCAAGGGGAGGGGTACAAAGTGAATTTTAGATGCTGCAGGAGACGAAGGGTC
WI-4091	84	A T	GTCATTGCATG	TTGAGGTCTTA GTCATTGCATG	TGAGTTCTAT TAAGTGACAAT ATTGTT	TAATTCACATTGCTCTTGTGTCATTTATTGCTTCTTATGTAACACAATCACCACATTGAGG TCTTAGTCATTGTCATG[A/T]GTATAACAATAATTGTCACCTTAATAGGAACCTCAAGCATAGTTATGTT ACATTTATTGCTAACAGCAG
WI-4160	117	A G	CAACAGAA	CCTATAATTTA GCAACAATAT	TGCAGGTAGAA TTTTCTAATAT AGCC	TCCTCTCTGTAATAGGAAGTCTGATTAGATGCCCTTTGAGGTTAGGTGGCTTCTAAGATGGTAAT ATCTGTCCAAAGTTTTGTTCTCTATAATTTAGCAACAATATCAACAGAA[A/G]GGCTATATTAGAAA ATTCTACCTGCATCCCCCTGGATCTGAACGTTCTTCATGATACT
WI-4168	32	A G	AAACA	GGTGAGAGTC AAATTGATAG	ATTGCCAAACA GATTTTCAGA	CGTTGCTGGTGAGAGTCAAAATTGATACAAACA[A/G]TCTGAAAATCTGTTTGGCAATCTATTAAAGG CAAAATATATACCAGCAGTGGTCTAGCAATTTCACTGCTGGCATACCTAACATAAATGAT

WI-4177	68	T C	TGAATAAGCA CGTATTAAATT TACCTA	AAGGCAGCAA ATCATGATG	ATGCTGGGATATACCTTCCAAATGACTAGTATGAATAAGCACGTATTAATTTACCTATTATTT AT/CJCATCATGATTTGCTGCTTCTTCCAAATTTACTACAAATTTGATTGTCACATGAGGCACATG ATCCCATTAACCCAAATAG
WI-4199	51	A C	CTCCCCAAGTT AGTCAATATA AAAA	ATATGTTGATT AGGTATAACA ATATGTGTG	GCCATGAGCACAGAGGCTGAACCACTCCCCAAGTTAGTCAATATAAAAAA[A/C]CACACATATTG TTATACCTAATCAACATATAAATGTTATAGATTAAACAGTCCACAGCAACAA
WI-5163	24	C T	CTGTCACTGGT CTGCCCTGT	AAAGGAACAC AGGAACAGAC C	TTCTGCTGTCACTGGTCTGCCCTGTC/TTGGTCTGTTCCCTGTTCTTCAATGTTCAACTGCTTGTAT CTGTGCCCACTAAGGTATCAGGTTTATATGGGCACAGGATGAGGGCTTTGTAGACCAGAGTTTCTT GGAATTGCAACATTGGGCAT
WI-4250b	117	A G	---	---	TAAGTGCAATTAAGTGTACAAAGTCCACAAATACCTCTTCCACCAAGTCTAAAGCAGTTTAAATAACA GGTTCAATATGAGTCTTTGTGAACAGGGGTGGGAAGGATCCTGTAAAGG[A/G]TAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4250a	94	G T	TCAATATGAG TCTTGTGAAAC AGG	CTTTTACAGGA TCTTCCCAC	TAAGTGCAATTAAGTGTACAAAGTCCACAAATACCTCTTCCACCAAGTCTAAAGCAGTTTAAATAACA GGTTCAATATGAGTCTTTGTGAACAGG[G/TTGGGAAGGATCCTGTAAAGGATAAATATTGTTTT CCATAATATTGAAGATGTG
WI-4255	68	G C	TGCTCCCCCAT CACCT	AGTTGTGTAAG G	TAAATGCTCTGGGAGATAATAGGAAGGTCCCATCCCTCTGATACCTTGGTGTCTCCCCCATCACCT [G/C]CCTTACACAACCTTGAAGTAGGCCCATCCAAACACTGGTCAGAAAGATAACTGTGCGAC
WI-4256	57	C T	---	---	ACAGCCTCTTCAATGGCACAATCAAAAGCACCAAGTAAAGCAGAGGCAAAATCTGG[C/TT]CTCAC CATTGGAAAGTCTTCTGAAGGATAAGGGAGTGAATGACTGCTAGAAGAGAATGATTGGCCTT
WI-4325b	71	C T	---	---	AGTTCACTGCCTAGATGAGTACCATGTTGCTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAGCCAC GATG[C/TT]TACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAGCCAC CCAGGACACTGCCATATCT
WI-4325a	58	C T	---	---	AGTTCACTGCCTAGATGAGTACCATGTTGCTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAGCCAC TGGGATGCTACTATAGATAATCTTTTTTAAATGACTCTTCTTGGTCTCTTCAAGATATCACCAGCCAC CCAGGACACTGCCATATCT
WI-4347	158	A G	---	---	TGGGCAGAAAGTCGGGTATGGCAAGTCAGGTGGGTTAACTGGATGCCACTTCTGCCTGTACCTTCT CTAGACTCTTGACCCCTGCAGGAGGATCCCTGGCCTCCTGAGTTTATCATCTCCACCTCCAGCCACG GGCCCTGTATCTGTTCCAGGCC[A/G]GAATCGTCACGGCTCACAACTGTGGAGGTAGGAATGACGA G
WI-1936	117	T C	---	---	CCAGTCTAGGCTGCAAGGACTTCAATTCTGGGGCAAGTCCTGGTGTGCTAGGGTCAGAGGCAGCG ACCTGAGGGACACACAACCAAGTGGGACACCAAGGGTACTTGTATCACCTTCTCTCCCGCAACCCCA AGCAGCACAGCTTGCAAGCTCCAGGAAAGACTCCTTACTTCCACTTGAGAAAAGGAGAGGGAAGAGA AAAGAGGACTTTGACACACAACCTTGGG

WI-5204	54	C T	---	---	---	TAGATTTGATTGATGACAATAGGGAAGCCTTTGTTAAATTTGGGTTTGAAGAA[C/T]GAAGAAAA TGAAAGGGAAGAAATTGACAGAAACCAAGAGAGTGTGAGGGGCAGCAATCCAGTTTGACTGGA ATATAGAGTGATGTCAGGGTTG
WI-5215	70	A G	CTCAAAA	GGACCTTAAT ATTTAACAGA	AGATAATTTG TAAAGATAGTT TTCGC	TTTTCCCTTATTTATTTAGGAAGCAAAATGTTTCATACAGGACCTTAATATTTAACAGACTCAAAAA TAT[G]GCGAAAACATCTTTACAAAATATCTCCATAGCAAGTAGACATTTTAGCACATTTTCCT GTAGTCAAGGTTTTAAAGGCCAAATGAAGTTGACTAAAGACAAT
WI-4448	112	T G	ATATAA	TTGTATCAAA GAGATGGGGT	AATTAAGAA ATCTTTACATG GTTCTTT	CCCTGAAATGTGCTTTGCTTCTCCTCCAACTCTCTAGGGAACCTTTTCCATGTCAGGTGAAGGTTTGA AGAGTACTTTAATTAACCTGTATCAAGAGATGGGTATATAAT/GJAAAGAACCATGTAAAGATTT CTTTAATTAGTGAATTTTCATCAGGGCTCTCCACTGCTATCAGTAA
WI-4456	49	C T	TATAGTTCC	AGTTGAATTA TTCAGAAAAT	TTTCTGTTAT GCATGAACCTTG	ACACATTTCAATTTGCTTTAAGTTGAATTAATTCAGAAAAATTATAGTTCC[C/T]CAAGTTCATGCATAA CAGGAACACCAGGTTGGGCAATTGATTGAATGT
WI-4461	49	A G	CTTCC	TCACTGTTATT TTAAAAATTAT	TTTGACCTTTC ACCAATTTCA	CTGAACTAATGAGGTGCTAAATCACTGTTATTTAAATTTATCCTTCC[A/G]TGAAATTTGGTGAAA GGTCAAGAAATGAAATCCCACTTTTAGATTTCTGGAAATTTTATTTGCGATGATAATGCAATGGGC
WI-4465b	75	G A	---	---	---	CTACTGGATTTTACTTTGCTCAAGCCAGACAAACACGAAAGT[A/G]TATAAAGAAAAACAGTTAGTAAT CTTTCACTTTGTAATTTCTCTTCTACCTCAGGGAATC
WI-4465a	41	A G	ACACGAAAGT	AAGCCAGACA ACACGAAAGT	GGTGAAAGATT ACTAAGTGT TCITT	GGGTTAGGACCTCGAGATCTTTCAAGAAAGCAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTTCAAGGCTGCTGACATGGTCAATGCTGAATATATGTTGAAGAAATAA GGAGTGAATAAATGAATGCCATAATC[T/C]CTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-1949b	160	T C	TAATC	GAGTGAATAA ATGAATGCCA	TGAGAGGTGGG GACAAAAA	GGGTTAGGACCTCGAGATCTTTCAAGAAAGCAATTCAAACCATAATGGCAGTGCACAGGTAACCA GTGGTGAGATGCTCTGAGTT/GJCAAGGCTGCTGACATGGTCAATGCTGAATATATGTTGAAGAAAT AAAGGAGTGAATAAATGAATGCCATAATCTCTGTGTTTTTTGTCCCCACCTCTCACACCTTTCCCTGG CACA
WI-1949a	86	T G	ATGCTCTGAGT	CAGTGGTGAG	CCATGTCAGCA GCTTTG	TGAGAGAGTTTTTGGATTATTCATCCTCTGCAACACTCCAAAGTAAGTCTATCATTTCTGAAGATG[T/C] GAGTCTCTTTTATATCCTATGATTATTTTTCAGGAAGTGTATTTTGAATATAAACTCCTGGGT CCCATCCAGGCTAGGGTCAATGGCATCCATGGTCTGCTGGACAAGATGGGCCCTAGGATCATTTT
WI-4529	64	T C	AAGATG	CCAAGTAAGT CTATCATTTCTG	TTCTAAAAATA ACACTTCTGA AAAA	

WI-4540	110 A G	GCACATGTGG CATCC	GACAATGCAGC CATGCA	AGCTTTTCTTTCTTAAAAAATGGTGCCATAGTACTGGCTTCTGTGTGCATCAGGAAGCAAGCCTAT TGCTCGGTAAACAGTACTTTGCAATAAGCACCATGTGGCATCCAG/GJTGCAATGGCTGCATTGTCCAGTC AAATGAGACAACCTTCTAT
WI-4582	226 T C	---	---	AGCAAGCATCTGGCAAGCCTCGGTGACCAGAACATTAATTCACCAACACACCTGCTCCAAATGT CCATGTTAATGCAATTATAGAACTCCAGTAGCATTCAGGCCAGTTAACTTATTCCTGTACACA AATAACTTTATGGGAGACAGCATTTGTAATTCAAATCAATAAATGACTCGGTTGGCTGTACAAGCAT AAACAGAACGCTTGCAAAATATGGTTC/CCTCCTTGCTAGAACCACTTGAT
WI-1965	105 G C	AG	GAATGGATGGG TCATCTCTCT	CAAAGTTAGTTAACTTGGGGGCAACACAAAGTTATGAGTACTCAATAACCTATGTTCAAGGG TAACCAACACCTTTTGCCATTGAGGAAGTGTAAAG/GC/JAGAGAGATGACCCATCCATTCCTGG GCTTCTTATATGACACCATACTATTCACACAGATGGGAGTCATTTATTTGGTTGGTATGACAGT CATGG
WI-5248b	99 C T	TTG	AAA	TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTAGAGCAACCCAGAAAAATTAAGCGCCTAC CATTTTTCACGTGTTTCTATTGACCGTACTTG/C/JTCTTTTGTCTTTTTCCTTCTTCTCTTTTCTG CCCTCTTTAACTATT
WI-5248a	38 G C	CTACGTGT	TGGGGTTGCT	TGTTTAAAAACCATACAGTTTGTGCTGCTACGTTGTG/GC/JAGCAACCCAGAAAAATTAAGCGC TACCATTTTTCACGTGTTTCTATTGACCGTACTTGCTCTTTTTCCTTCTTCTCTTTTCTG CCCTCTTTAACTATT
WI-4596	69 T A	TGAAGCAGAA AGCACTGTGA	CAGGAGATGGG CCTAATAATG	CATTGGTGGTCCAACTCTCGGTGACATTACTCTGTGACTTTGTCTGAGCAGAAAGCACTGTGA C/T/A/CATTATTAGGCCCATCTCCTGCTGAGCCCTGCCTACAGCAATTTGTAAACATATGGCATTGGG ACATATCTCTGAGCCCATCACTATTGACAAGATTCTCCTTTTAAACA
WI-5252	119 A C	---	---	GAATAGGGCAAAATTAAGACTTCAATAATTAGAAAGTCTTGGGAAAAGGATTTGTGATCATCTTG AATCTGTTTAAATACAGAAATTAATACTGAATACCTGTGTGAATCATTGCTTTT/C/JTACCATGTACA TATTATATGAATTAACAATGTAATAATAGTATGACTAAGAAATATTGGGCCCT
WI-4606	61 A G	CT	TGG	TGCAAAAAAGGAAAAATGATAACCAAGGACTGTTGTTCAAGCAATGCTAGAAAAATATGCCTA/J/GJC CAAGTAGACAACCTTAAGCACCTAAGGCAGAAATGAAGTTTCTCTTGTCAATTAAGTCTCTATTCA ATTACCATTTATCGGGGTAAATTAACACACTGGAAGTAATGCCAGGCTAATTTAGATTATGATAAT TACACGCTCTTGTCTATGCT
WI-5257	77 C A	GAGGCATGAA GCAAAGAGG	CCAGGGGCAGA TGAAAG	CAATGAGAAAGTTACCAGATGGGGCAAAATTAAGCATATGAAAAATACCAAGTGTGGCAGAGGCATG AAGCAAGAGG/C/A/JCTTTCATCTGCCCTGTGGGTTTTTCAGTAAGTCAAGCATGTCTTTGCCTCC CGGATGAAAGATACCCCTTCTATGACTCAGCAATTCACCTCTAGGTATGCACCCCTAAACATGGGTG GCAAAAT
WI-4649	50 C T	TTCCGAATG	AATCATC	TCAGTGTTTAGAAATTTCTTCTCCTCAGTGAGACCACTTTTCCGAATG/C/JGATGATTTCTTGTGA AGTACACCTAGTACATCTATGAGCACACAATTAACAAGTACTTGCTACCTGAATTTGTATTTTTTAA AAATCCTCCCAATATTG

WI-4650	148	A	G	GCACAAAGAA AGTATAAGTT G	CTGAAGTGTTA AACTGGATTG G	AACTGTGGTATGTATTGTTGTGTAATTTCTGGAGAGTCAGTTACTCTCACTAGATCATAAAGGG GACTTGGGAACCAAGATATCTCAAGACATTTAATCCTAGAAGCACAAGAAAGTATAAGTTGTCTC TTATATTGCTTTT[A/G]CCAAATCCAGTTAACACTTCAGTAACGTT
WI-4677	82	T	C	TCCAAAAGTG ATTAGGTGAA AAA	TTTCAACAGTG TCATTATTCAA CTT	AATTCAGATTTTGAACATACGTCGACATTTGGAAAAAATTTGCCAAAAGTGATTAGGTGAAAAAT GAGTTGAATAAATG[T/C]AAGTTGAATAATGACACTGTTGAAAAATGATGAATCTGCTTTCAATTCA CATGGAAAGGAGACTAGAACACACAGCAGGTTTATAGGGGAATACTCAT
WI-4698	135	C	G	---	---	ATGATGCTATCATGAGGAATCTGTAGAAAATTTTACCTGGCAATTGATTCAAATAAAGTTTGTCC TCACCTGGAAACTGCTTATCTTGATGTCAGTGACATTTCTTTTGGACGGAAGAAAACTTCAA C/GTTTCGAGAAGGCTTAGATTATATCGCTGAAGCCCCATTCTG
WI-4722	88	G	A	TGCATATGG AACACACAC G	AATATGGAATC TGCAATTCAGTT G	CTTCCCATTTCTGCCCAGTTAGATGACTGCCTCTCCACCAGCTAGAAAAAGATGGGAGATTATTTTC TGCATATGGAACACCCACAC[G/A]CAACTGAATGCAGATTCCATATTGAATACTGGGAAATCAGTGA AAG
WI-2020	145	C	A	---	---	GCCACAGTAAAGAGGAAAAATGGAGCCATGTACAGAGGAGAGCTTCTGAAGATCAGTGTATTGTCA TAAAGGTCAGTAAATCACTTTGATGGTTGAGATTTTCAAGAAACGTGAAATTTAGTAACCATGGG TCAACTATGAT[C/A]CCAAAACACGAGGTGTGCTCTCTCAATTTCTTCTCCTGCTCCACCC GCAATGAAAAGGAGTT
WI-2028	176	T	C	TGTTACGTTG CCTGTCATC GAA	GGTTGGAAACT CAAAATTACCTA GAA	GACTACAGCGCACAGACAGGCAATTTGTGGCTTGCACAGGTGTTGGTTTGTGTTAAGTTAGATT TGAATCCTTTAAAGAAAGAAAGTGCTCTTCAGTTTACTACAGACCTCATCATCTCTGTTCTCTTG CACCCAGTCCACTTCACCTGTTTACGTTCCCTGTCTCAT[C/T]TCTAGGTAATTTGAGTTTCCAACC TGCG
WI-2033	183	T	C	GGGTGCTAGA ACTAATCCCTC C A	CAGTGGTTCCA CGTTCTCC	ATGTGTATGAGCTCCACATTTCGCAGATTCAACCAACTATGGATAGAAAAATATAGTATCCCAGATGG GCAGCCCAAGGATCAGAGGGCTAATTTTAAATTTCCAAAGTTATACAGGACCAGTGTGGAAATTT AGCATTTCTGGGTTTGGCATCCATCAGGGTGCTAGAACTAATCCCTCA[T/C]GGAGAAACGTGGAAACC ACTGATATACCAAT
WI-4745	131	T	C	---	---	TTATGGATACATGTTTCTGGTGAAGGACAAGAGTTGAAGCAAAAGGACAAGAGAGATCAACTGGG TAGAATAACTCATCGATCCACCAGGCCCTCTCCACCATTCTCCATCTACTTCTACTCTGA[T/C] AGGCAGACTTATATGGAAAAAGGGA
WI-2034	150	T	C	CCACAGTGCA CCCAAGGAC CC	GGGTAAAGAT AGAGTGCAGGT CC	CCACGACTATGCTTTCAGAGTCCCTGGTACTGACAGAGAAGGCTTTGAGGACCATTGTGGCGCCCAAGA CCTCCTTCTGCGGTTTTCAGTGAAGAACGATGAACCTCTTCTATCTCTACAGAGCTGAGACTTCAACA CAGTGCACCAAGGAC[T/C]GGACCTGCACCTATCTTTTACCCCTCCGACACCAGATGCTGAGATGCC ACACTCTGAGTG

WI-2038	155	C T	TGTGCTTTAAA GTGTGTAAGT ATTAATTAG	ATTTCTCTTG AAAGAAACAT CA	TCAGGTGACAAGAAAAGTCACATTTCTTCAATCACTCACCATTGTCTGTGTTATTGTCTCTTGCAGTGT ATCCAAGGATGTCACCTTTTGGAACTCTGTAGATCAGAAAAAACTGTGCTTTTAAAGTGTGTAAGTATTA ATTAGATTCTATTTTGTATGATC/TTTCAAGAGGAAAAATTTGTGTAAGAGGATTCCCAATT TGCATTTCCATTGGC
WI-4782	113	C T	GATGCAGAAG ATAACTAGAA AATGC	GAACTCTTCTG GTTATTTTCT GTTG	TCATTGACTTTTTAGAGTTCTTCCAGTCTTTCAGTCTTTATGTCTTATTTTCAGGAAAACTAGGCTAGGAGAA CACAAATTCAGGTTCTCTCCAGATGCAGAAGATACTAGAAAAATGC/TTGAACAGAAAAATAACCA GAAGAGTTCAATTATGGTTTTTTTCCAGAACGATTAC
WI-4788	65	A G	GCATAGAATC ATCTTGCTAAG TTCC	GGATAAAAT AAAATTTTGGC ATAA	AGGAGAGTTTTGGCTCTTTCCGGACTCTTGGAAATTCAGTGCATAGAAATCATCTTGTCTAAGTTCC/AG TTGAAAAAAAATTAATGCCAAAAATTTTAAATTTTATCCAACTTTAAGTCGAGATTATAATTGATATTT AAAAAACTATATTGAGTCTTTCTTAAAAAGATGGCGTATCACCTCA
WI-5300	38	T C	TCCAGAGAC CACTTCATTC	CTACTCTTTCT ATTTCAATC CAAAAA	CTTACTTCCAAAGTGTTTTCCAGAGACCCTTCATTCT/CJTTTTTGGATTATGAAATAGAAAAGAGT AGGTGTTTATTTCTCTTTTACCAAGGTGAAATTTGAGGCTCAGAGACAAGGTAGATGATGAGCCCA AGTCAAGTGACAGAGCCA
WI-4818b	121	G T	TGATAATGGG GCCCTGTT	CCTTCTTTTA TATGTATGCCA GA	TATAATGTTTTGTCCATAGTTGCCATAGACTAGGTTATGTCCACACATGAATAAACAATCTTATATA ATAAATTTATTCAGAAGGAAAAATATACATATGGGTGATAATGGGCCCTGT/GTCTCTGGCATA CATATAAAGGAAGGCTAA
WI-4818a	43	A G C	TTGCCATAGAC TAGGTTATGTC	CATATGTATAT TTTCTTCTTG ATAAAAT	TATAATGTTTTGTCCATAGTTGCCATAGACTAGGTTATGTCC/AG/CACATGAATAAACAATCTTAT ATAAATTTATTCAGAAGGAAAAATATACATATGGGTGATAATGGGCCCTGTGTCTCTGGCATA CATATAAAGGAAGGCTAA
WI-5317	139	T C	TTCCATTTCTG GTAGCAGGT	GATGCAAGA AGAAATGAGTC C	TTTTCCATTTGTTTGATCTTTTGTCTGAGCCCTTAGATCTCCTTTAAATTAATAGCAAGGTTAAT AATATAATAATATGATGTTATATATACAAATTTCAACTCAACAGGAATCCATTTCTGGTAGCAGGT ATAT/CJGGACTCATTTCTCTTTGCACTATTTCTAGGTTATTTGCAGCCCCGAGATCTACCCAGG
WI-4888	56	G A	GCAAGATATA AAGATTAAAG AAAGATAACA	CAATTCCACTA CCTCATTTATT CA	AAATGAGTAACCCCAAGTTACTCGGCAAGATATAAAGATTAAAGAAAAAGATAACAAGA/G/ATGAAT AAATGAGGTAGTGGAAATGCTTGATAACTGGAGTAGTGCCTT
WI-5328	44	A G ---		---	AACATTTTAAACCATGCTACATTTACAAACACTGAAAAGACAG/G/JAAAAAAAAGAAATATTTTG CCTCAAAAAGCTCTTAAGAGATTATGTAATAAAGAAAAAATATGAATCAGAAAAAGGAAAAAAT AGAAACACGTTGATACTGGAAGGAG
WI-4897	93	A G ---		---	GCCTTTTGAGTTAAGTCTTTTGTGAGTGTGCTTTTTTTTCCCCCACTAGGTACTCTCGGCCCAAT CCCCAAAGAAAAAATAGCGCTTGG/G/AGATAAACACATCTTC
WI-5345	29	G A ---		---	CCCTGCTATAGGTCAGTTTAAAAATCCT/G/AG/CCTGCTATGGTTGCTTGTGTAAGCCACATCCACT GAGGTATTTCTGTCTGCATTTTCTATATCACTCAGCTTCAGATCCACTCCATCAACTTGCAG

WI-5370	143	T C	AATAAGATGG TACCTTAACCTA	CAAAGTTGGTA CAGAGAAATTC AAA	TGCATGTTACTCTTGGAAATCATAAAGGGATCTGAGAGCCTACAGTATATGGCAACATTAAACCAAT CTTTTGAATAATTTACCTGTATCCCATCATGTTTCATTTGCAAAAAAATAAGATGGTACCTTAACTA ATAAACAAATTCCTTGAATAATCTCTGTACCAACTTTGCTTTTC
WI-9711b	423	T A	---	---	GATCTCTTCATCCCTCTCCAGAAGAGGAGAGGAAACACAAAGAAGAAACGCCTGGTGCAGAGCC CCAAATTCCTACTTCATGGATGTGAAATGCCAGGTGAGGAGACGGCTTGTGTAGTGGGGAAGCAC TGGACCTCAACAGTTGGAAATGTTGTAGTTAGCTGTCTCGTATCTTGAAGCTGTGCAGCAGCTT CAGTTTCTTCGCCCTGTGGAAATATTTCCCTGATACTCTTAAATTTGAATG
WI-9711a	390	C A	---	---	GATCTCTTCATCCCTCTCCAGAAGAGGAGAGGAAACACAAAGAAGAAACGCCTGGTGCAGAGCC CCAAATTCCTACTTCATGGATGTGAAATGCCAGGTGAGGAGACGGCTTGTGTAGTGGGGAAGCAC TGGACCTCAACAGTTGGAAATGTTGTAGTTAGCTGTCTCGTATCTTGAAGCTGTGCAGCAGCTT CAGTTTCTTCGCCCTGTGGAAATATTTCCCTGATACTCTTAAATTTGAATG
WI-9702c	345	G A	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCTGCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGTGAATCAAGCTGATATTTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTTCATTCAGTGTGCTACAGCATCTGATAG
WI-9702b	344	C T	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCTGCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGTGAATCAAGCTGATATTTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTGACTT TTATACTAGCTTTAAGAGGTTTTTCATTCAGTGTGCTACAGCATCTGATAG
WI-9702a	179	C T	---	---	GGAGGAATTCAGGGTGAATGGACTGCTCCCGTCTGCTGAGTTCAGTCTACTCAGCCTGAGGTTGCAG ACTGGTCTGAAGGTGTACAGGTGCCCTCTGTGCCATTCAGCAATCCCTACTGGTATGTATCAGGAT AGAGTGAATCAAGCTGATATTTTGCAACTTCTCAGTTTATTTCTAACTTTAATGATCTCTGTG CTTTTATACTAGCTTTAAGAGGTTTTTCATTCAGTGTGCTACAGCATCTG
TIGR- A003N21	49	C A	---	---	TATAGTATTTAACGAAGCCTAGAAGCAGCGCTGTGGGTGGTATTTGGTTC/AJAGCATATCTTAGGT ATATAATAACTTTGAAGCCATAACTTTTAACTGGAGTGGTTGATTTCTTTTTTAATTTTATTTGGGA GGGTTTGGATTTTAACTTTTTTAAATGTTTAAATATTAAGTTTTTGTAAGGAAAAACCATCTCTG TGATTACCTCTCAATCTATTGTT
TIGR- A004V30	203	C T	---	---	AGAATGGCTACTTCATAGGGCAGAGCAGCCACTTTTGGCTAAATTTTAAACATCCAAAAGCTAAATAAT AATCAAGAAGAAATAGAGAACATTAAACAAAATAAATTTATGTTCTATTTGGGAATACCTAATATCAG ATACTAACAAGTACAGTGATAAGAATAAAAAAGATAATAATACACATACCTTCTAGGTTAGTAGA AAAGTC/G,TTCTTCTAGGTTAGTAGAAAAGTT

[illegible]

WI-7593	46	G A	---	---	TTTGTGTTGCTCTGGACACCCACTGCTCCAGGATGAAGGAGAG[G/A]AATGAGATCAGTTTTGGA CACTTCTCTTGAATATAAAGAAATCAACAAGTTACAGTCATGTTGGGACTTCTTCTCTCTCCAA AGTGATCTTTGGGAAAGGGCTCCAGTGTTATCTGGACCAAGTTCCTTCATTTTCAGGTGGGACTCTT GATCCAGAGA[G/G]ACAAAGCTCCTCAGTGAGCTGGTGATATATCCAAAGACAGAACCCAAAGTCTCC TGACTCTGGCCTTCTATGCCCTCTATCCTATCATAGATAACATTCACACAGCCTCACTTTCATTCAC CTATTCTGAAAATATCCCTGAGAGAACAGAGATTTAGATAAGA GCAGAGAAGAGAACCATGCCAGGGGAGAGGCCACCCAGCCATC[G/G]TGACCCAGCGAGGAGCCAA CTATCCAAATATACCTGGGTGAATATACCAAATTCATCATCTCCAGAGGAAAAATAGAAAAATAA GATGAATGTTGCAACTCTTAAAAAA
WI-6962	78	A G	---	---	AGAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCAATTTAT[AC]TACCCCAAGGG CAGAAAGTAGAACTTACTATTCTAAATGTTTGACACAAATGGAAATGTC AAGGGCAITGAGACTATAAAGCAGTAGACAATCCACATACCATCTGTAGAGTTGGAAGTGCAT CTTTAAAGTTTTATGCATATATTTAGGGCTGTAGACTTACTTCTTATTTCTTTTCCATTGCT TATCTTGAGCACAAAAATGATAATCAATTTATACATTTATACATCACTTTTGTACTTTTCCAAAGCCC TTTTACAGCTCTGGCATTTTCTCGCCTAGGCCTGTGAGGTAACCTGGAT
WI-7079	293	T G	---	---	TGGATGCCGAGGTAAAAGTTCTTTTGTCTAAAAAGAA[G/A]AAGAACTAGGTCAAAAATCTGTCC GTGACCTATCAGTTAATATTTTAAAGGATGTTGCCACTGGCAATGTAACGTG GGAGTTTGGCCCTTCTAAGGGAAGGAGATCTTTATCTTCTGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGAGTGCCAGGAGACCTGAGGCGAGCCGTTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGCCACGAGCAAGAGGGCTTGGTTCTGAGGAAGCAGATGTTTCATGCT GTGAGGCCTTGACCAAGGTGGGGGCCACAGCACCAAGCAGCATCTTGCTT
WI-7104b	249	C T	---	---	GGAGTTTGGCCCTTCTAAGGGAAGGAGATCTTTATCTTCTGTTGGCTTGACCAGTCACGTTGGGA GAAGAGAGAGAGTGCCAGGAGACCTGAGGCGAGCCGTTCTACTTTGGACTGAGAGAAGGGAGCC CCAGGCTGGAGCAGCATGAGGCC[A/C]AGCAAGAAGGGCTTGGTTCTGAGGAAGCAGATGTTTCAT GCTGTAGGCCTTGCAACAGGTGGGGGCCACAGCACCAAGCAGCATCTTGCT
WI-7104	157	C A	---	---	CATACATGAGAGCCCTGAGCCCTCAAGAACTCA[CT]GCCAGCTCAGCCCTACACCAGTTTCCACC TGGAGTTTATGCAAGGGCAAAAGGCAGTGCCATGCAAGCTGTTAA
WI-8974	34	C T	AAGAACTCA	GGTACAGGAG	CTGTAGGGTGACGTTAGCATTACCCCAACCTCATTTAGTTGCCTAAGCATTGCCTGGC[C/T]TTC CTGTCTAGTCTCTCTGTAAGCCCAAGAAATGAACATTCCA
WI-9161	61	C T	CCTAGCATTG CCTGGC	AGACTAGACA GGAA	CCCTGTTCCCATGCTGACCTGTGTTTCTCCCAAGTCATCTTCTGTTCCAGAGAGGTGGGCTGGAT GTCTCCATCTGTCTCAACTTTAT[C/G]TGCACTGAGCTGCAACTCT
WI-9014c	93	T C	---	---	

WI-9014b	44 C T	---	---	CCCTGTTCCCATGCTGACCTGTGTTTCCCTCCCGAGTCATCTTTTC/TTGTTCCAGAGAGGTGGGGCTG GATGCTCCATCTCTGTCTCAACTTTATGTGCACGTGAGCTGCAACTTCT
WI-7023b	206 C A	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCCCTGCAGATCCTCATGGTTTGTGACAGACCCCTGCGTGCT CAGTCCCTTTAAGTGCATCCCGCTGTGCTGACTTTGAGTGGATCAACATCTGTCTACGGGTCCOC TCTTTTGGCCCCAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTTCAACAC A/C/AJACACACATCTTGTCTACCCAAAGCTCTGGCTGGCAGCACTAA
WI-7023a	56 A C	---	---	TCTGAGAGAAATGACTTGTGGGAGACACCCCTGCAGATCCTCATGGTTTGTGACAG/A/CJCCCTGCGT GCTCAGTGCCTTTAAGTGCATCCCGCTGTGCTGACTTTGAGTGGATCAACATCTGTCTACGGGTG CCCTCTTTTGGCCCCAGTATTCATGGCAGGTTTGTGGACACCTACTAGCTTCCCTTCCCATTTCAA CACACACACATCTTGTCTACCCAAAGCTCTGGCTGGCAGCACTAA
WI-7093	54 C T	---	---	CTGAAATCCCTCTCTGCTGGCTGGATCCGGGACCCCTTTGCCCTTCCCTC/TTGGCTCCCGAGCC CTACAGACTTGTGCTGACCTCAGGCCAGTGTGCCGACCTCTCTGGCCTCAGTTTCCAGCTATG AAACAGCTATCTCAAAAGTTGTGAAGCAGAGAGAAAGCTGGAGGAGGCCGTGGGCCAAT GGGAGAGCTCTGTATTATTAATTTGTGCCGCTGTGTGTGTGTTA
WI-9171	62 G A	---	---	ACATATCTGAAAAATGTTGAAAGCCTAAGCCAGGAATAAAAGAAAAAGTAGAGATAATAATCA[G/A] TTCTTTACAACCGATGGTAATTAAGCTTGATTCAACAGACTTCATGC
WI-9174	47 T C T	CTAGAGGGTA TATAGGACAGG ACTG	CTAGGACCC ATTCTCCTATT	GTGTGAGACCATCATGGTGCCAGTCTAGGACCCCATCTCCTATTATTC/CJAGTCTCTGTCTATATA CCCTCTAGAAACAGAAAGCAATTTTATAGCAGCTATGGTCAAAATTGAG
WI-7753	52 A G	CCATGTTCCGA GAAGAACAGA A	CCATGTTCCGA GAAGAACAGA A	AAGGCCAGATGCACATCCCTGGAAGGACATCCATGTTCCGAGAGAACAGAT/GJATCCCTGTATT TCAAGACCTCTGTGCATTTATTAAGCCTGCCCTGCTCCACAGAACACAGCAATTCCTCAGGCTA AGCTGCCGGTCTTAATCCATCCCTGCTAAGTTAATGTTGGGTAGAA
WI-9186	76 G A	CCACTTCTCCC CGCA	CCACTTCTCCC CGCA	AAAGAACTACAGAGGACGATGTCCAAAAACAAAAATGGCATCACCTGTCAAAAAATGGAGTTCCACT TCTCCCCGCA[G/A]ACCTAGGTGACACTTCCCTTTCACTT
WI-9193	94 G A	AGAAATATTGT CTGCCCTTAAAG CA	AGAAATATTGT CTGCCCTTAAAG CA	TTGGACAAACCTAGAAATTTTCTCCCTTTATGTATCTCTATCGATTGTGTAGCAATTGACAGAGATAA CTCAGAAATATTGTCTGCCCTTAAAGCA[G/A]TACCCCCCTACACACACACCCCTGTCCCTC
WI-9015	48 C T	---	---	TTTGATTGATATCGTAAATCCTCAGCCGAGAAATTTGGGTGGATTG/C/TTGCTTTGGTTAATACAT CTTTCCCTAAAGAGATAAACACAAATCCATTCAGGTAGTCTGGCACCACCAAGAA
WI-7254	37 A G	GGTCTGAGAG AGGAGCCAC	GGTCTGAGAG AGGAGCCAC	GGAGCCAGGAGACAGGAGGCTGTGAGAGAGGAGGCAC/A/GTCCCTAATGACACCCACTCCTAGCC CTGAGGCTCGTCCCCCTCAGACTGGGAGAGTCCAAAGGAGGGAGCAGCCACTCCTCAATGC TCAATGGCTCCCCCTGAAATCAAGACAGG

WI-9231	32 GC	CAGTCCCA GATTGA	CATTGCCAC ACTCAGAC	GTGACCCGTGAGGTCCGCCAGATTGA/GCTGCTGAGTGTGGCAAGTGTGTCAAAAGGGGC TGCCCCCAGGAGATAGGCTGAGAGCAGGGAGTTGAGCCGAAGAAGTCA
WI-7836	120 TC	CAAAATAACA ATGCAACGTT C	GCTCTCAGAAC CAAGATTAGA AATC	TTGTTTGGGAAATAGAGATTGAGATAAACACTCTCATTCAGTAGTTACTGAAAGAAAACCTCTGCTA GAATGATAAATGTATGTTGTTGTTTAACTCCAAATAAACAATGCAACGTTCC/TCTGATTCTTAAT CTTGTTCTGAGAGCCATTGGTTTCAGTTGAGCAATCCCATACACAGCT
WI-7286	65 TC	CAGCTTCAGCT TAACTGACAG A	AAACAATCTA ACCAGAAAGCT TAA	TCCATTCCTTTGGCCCTGCAGCATGTATGCTCCAGAAATTCAGCTTCAGCTTAACGTACAGAGAT/C TGTTAAAGCTTTCTGTTAGATTGTTTTCACCTGGTGATCATGTCTTTCCATGTTACCTGTAAATATT TTTCCATCATATCTCAAAAGTAAAGTCA
WI-7858	91 TG	CTAAGCATGT ACGTGAATTT TAAAT	CCCAATTTTA TTAAAGTTTA CATCTAT	CAAAATCTTGAAATATCTCAAATGTTAATAACAATATGAATTTTCTCATGCATACTATTACTACT AAGCATGTACGTGAATTTTAAAT/GTATAGATGTAAACITTTAATAAAATTTGGGGTGTGG
WI-7860	50 CG	CGTACCTCCAA ACATAATTGA TTC	---	GAAGATTAGGGAGGGTGTCTGTGGTCTCTCCCTGCCCTCTCCCA/C/GTGGGGAGAGACC TGTGATTTGCCAAGTCCCTGGACCTGGACCTGGACCTGACTGGGCTTATGGGTTGGGGTGTAGGCAGG TGAGCGTAAGTGGGAGGGAATGGTAAGAAAGTCTACTCCAAACCTAGGTCTCTATGTACAGACCAG ACCTAGGTGCTCTCTAGAGGGAACAGGGAGACCTGGGGTCTGTGGAT
WI-9064	29 AG	CGTACCTCCAA ACATAATTGA TTC	GCTTGAGTGA AGTCTGCAGA	CAAGCGTACCTCCAAACATAATTGATTG/GTATCTGCGAGACTTACACTCAAGCAATCCTGAGG AATACTGAGGGAGGGCTGGCTACTGCTCTCTGCACTGTGCTGTG
WI-7307	128 GT	---	---	CACACTGTCTGTTCTTCAGTGTGGAGGTCTGGCAGGGTCAGGTGGGTAAAGCCGGGTCCACA GGCCCGAGCCCTGGCAGGGTCTGGCCCGCAGGTAGGGAGAGCAGTCCCTCCCTCAG/GTAACT GGAGAGGGGACTCCAGGAATGGGGAATGTACACCAACCATCTGAAAGCCAGCTTGACACCTCCAGT TTGCACAGGGATTGTCTGGGGCTGAGGGCCCTGTCCACCCCGCC
WI-9274	25 CT	GAAATGTGAC TTCACTTTGGT G	CAGGTAGAATT TTCTGTCCATT G	GAGGAAATGTGACTTCACITTTGGTG/GTCAATGGACAGAAAATTCACCTGTGCTACATAGGAGAA GTTTGAATGCACITTAATAGCTGGTTTITACACCTTGATTTCGAGGTGGAAA
WI-7313e	266 TC	---	---	AATTCCTTTCTGGTAATCAGGCACATGATGAACITTTGATTAGTAGGTCTGTGATTAAAGTTCTTAAAT TGTTTGCAGCTTTTATGTTTATTCATAGGTATAGGTGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTATCCACAGTTTGTGTTTATGTTTAAAGTAACCTATTATCTCTGGATTTCATG AAGGTGAATATCGTTTGTAACTGAATAGAATTGTATAGCGATGA
WI-7313c	256 CT	---	---	AATTCCTTTCTGGTAATCAGGCACATGATGAACITTTGATTAGTAGGTCTGTGATTAAAGTTCTTAAAT TGTTTGCAGCTTTTATGTTTATTCATAGGTATAGGTGACCTAAATCCCTTATCATATCTTTATT AATTCAGCCAGTATCCACAGTTTGTGTTTATGTTTAAAGTAACCTATTATCTCTGGATTTCATG AAGGTGAATATCGTTTGTAACTGAATAGAATTGTATAGCGATGA

WI-9281	68 G A ---	GCTAACACTTT TTAAACCCTG CTC	--- CATTTATTTG AAAGCTATTCA GACA	ACTGGTGGGAGACTGTGAGGATCCAGGATTCAGTATTCCTGGCCAGAGGGCCTTGCTGGCTACTGG [G/A]TGTTAGTTTGCAGTCTGTGTGCTTCCCTCTCTATGACTGTGCC
WI-7848	142 A G	GTATATTACA ATGATCACCG ACTGA	CCCACAGAAC TATTGTAAAC AA	TTCTGAAAATATAACCAGCCATTGAGCTATTTAAAACCTTGTAATTTTTTAATTTACAAAAATATAA AATATGAAGACATAAACCCAGTTGCCATCGCGTGACATAAAACATTAATGCTAACACACTTTTTTAA ACCGTCTC[A/G]TGCTGAATAGCTTTCAAATAAATGTGAAATGGT
WI-9304	70 G A			TCACGTTTGGTGTCTCTCAGATTTCTGAGGAAATGCTTTGTAATGTATATTACAATGATCACCGACT GA[G/A]AATATTGTTTACAATAGTTCTGTGGGCTGTTTTTTTGT
WI-7933b	314 C A ---		---	TTACAGAAACTTGCCTGTGCCTGTGCTGCCCATGCTAGGGGGGAGGGGCTTTTCCCTCTCTTTCC TACCTACCCCTTTTCTCTTGGCCAGGGCTCGATCCTACCTTCTCTGTCCCTGGGCTGGCTGCAC AGAGGATTGCCCTTCTCTTTTCAGAGCTGCCCTCGATGCCAAATTAGCATTTAGTATTTTGCACAA AGTCTAAGGGACCATGGCTGCCTGGCTGGGGAGGAACCATAGCTCCCT
WI-7933	96 G C ---		---	TTACAGAAACTTGCCTGTGCCTGTGCTGCCCATGCTAGGGGGGAGGGGCTTTTCCCTCTCTTTCC TACCTACCCCTTTTCTCTTGGCCAGGG[G/C]CCTGTATCTACCTTCCCTGTCCCTGGGCTGGCTG CACAGAGGATTGCCCTTCTCTTTTCAGAGCTGCCCTCGATGCCAAATTAGCATTTAGTATTTTGC CAAAGTCTAAGGGACCATGGCTGCCTGGCTGGGGAGGAACCATAGCT
WI-7374	182 T A ---		---	CCCAGATGTGCCCATCACGTTTTTCTGAGGCTTTTGTAATTTAGTAAATGCTTCCACTAAACTGAAA CCATGGTGAGAAAGTTTGACTTTGTTAAATATTTGAAATGTAAATGAAAAGAGTACTGTATATTA AAAGTTGGTTTGAACCAACTTCTAGCTGCTGTGAAGAATATATTG[T/A]CAGAAACACACAAGGCTT GAT
WI-9343	78 C T	CCAACAACAT CCTCTGCCA	AAATGAAACTT ACGTTTGTG TG	GGTCTGCTCTGCTACCTTGACCTTCCCTTCCCTGCTCTCTCTCATCATCATTCCTCCCAACACAT CCTCTGCCA[C/T]ACACAACAAAACGTAAGTTTCATTTGGGCAA
WI-7386b	104 T A ---		---	CTATATGTGAGAGGCGTGATATCTGGATGGAAGTTGGCTGGATGATCTCCAAAGTCGTTTCAACTCT TAAAGACATCTTAATCCTGAATGTAACAAATTGTTA[T/A]GTGTTTAGAATCAGAAATTTGATTTTGA ACTTGAGTAAATCATCCTT
WI-9357	75 A G ---		---	AAGAAGGAGCTCAGTTACGGGGTTTTTAAACCTTCATGAAAACCTGAAGAGTTACACTTTTGTATTAT GCTCTTA[A/G]TGATTTACAGACTGATGCCAGACAAACCTTGGGAAGA
WI-9360	79 T C	CTTTAGAAAA TCTGCTTTAA TTGG	CCTAGGGAACA CAATTAGAGGA A	TGAAGGGGTGGGCATCTGTGTTTCTGATGCTTACTACAATATGTGAACCACTACTTTAGAAAACTG CTTTAACTTGG[T/C]ATTCCTCTAATTGTGTTCCCTAGGAAATGACTGTCCCAAG
WI-7423	107 T C	TGCTGGGCTGT GTTC	GGTCCAGGAAGA GCGG	TGCTCCTGTCCCATCTGCAGTGGACCCCGCCCTTTGAGGAGGTGGGGTGAACCTGCTCCTT GGCAGGATTTGTACACTGCAATGCTGGGCTGTTCQ[T/C]CGGGCTCTCTGGACCTTGCACCGTG GATACCAGGCCATGTGCCATGGTATTTGGTCTGGGAGGTGGTGAAATAAAGGCATACTGTCT

WI-7424	131 T	CAAGAGAGAG AGAGGAAAGA A AAA	TGCAAAAGAA GAATGAAAGTT G	CCAGGAGCACTAGAGAGGGGGAAGAGCAGAAAGTTAGAGAAAAAGCCACCGGAGGAAAGG AAAAACATCGGCCAACCTAGAAAACGTTTTTCATTCGTCATTCCAGAGAGAGAGGAAAGAAAA T/AJACAACTTTCATTCCTTTGTCAGGTTTATAAACATTTCTACATA
X86400	118 A C		---	TCCTGCAAGAAGTTCTCAAGCCTTTTTGAITTTTGTCGAATAAGTACAGCTTTCATAGAGTGAAA TTGGGCTAGCTTAAATGGATCCATAAACCTTCTCTCTAAATTTAAGTGAGA/A/CJTCTTTTAAACACCT GTTAAATTTAATGTAGCAGTCTGAGAATCTAAAAATTATGTACCACCTGTTTATTTGTTTCATTCATCCA TCCCTTTTCCCATGAATATTCA
WI-8053	242 T A		---	GTGGCCACTACATGTTATAGAAACCATCATCTTGTCCACACAGCAGTCTATGAATAAAAGGCTGAG TTATCACTAAGCAGGAGAAAAAGCATTAAAAAGTGCCCATTTAAAGGGGACTTTTAAATCAACCTAA TAACTCTAATCTGCTGACTTTTAAAGATCTAAGGTCAATTTAATACATGCTGAAAAGGGTCACA ATTAATTCITTTGATCTTTTACTCAGTGTAACTTATATAAT/AJITCAGAAC
WI-6190	165 G A		---	TACACAAATGAATGCTTTTATTCGGTATGCATCCACATTTTCAAGCATTTAGTGGTCTGAAACAGCAAG TGGAAAGACGCAGCAATTTGCCAGGAGGTCAAGCCCAACCAATTTTCGGGATCTGCTGTGCACACCGG GTTCCCTCTTAATCCCTGCTGAGGATCTTG[G/A]GAAGCAGCAGCAGCAACCAAAACCAAGGCATGCA CCGGATTCAAGGTTCTTTTGTCCAGTTGTCAGATTCCAAACTAGACCCCA
WI-6275	148 G C		---	AACAGTACACCAACCAACATGACAACTCGCCAGGAGGCTTCTCCCTCCCTCTTTCGGTCCC ATGTCCCTAGTCAGCAAGGTGCGGGAGGCAACCGATGTTAGCTTCGCCAAAGGGAGTATTACAGAGA GAGGCTTGGGAAAG/G/CJGGAAAGGAAACCTGGACAGGCTTTTCAGCACTGAGAAATCACTTAAAACTG ATTTGCTTTCAGTAACTGGTATGCTGAA
WI-6421	41 G T		---	ACCAAGAGATCAGCTGTCTAAACAGCAGCTTTTGTGATTGT[G/T]GGGCTTCCTGAAGAAACCTTGC TGACAGCTTCTCAGTACCTGCAGGACGGAACCGTACCTGAGAGGGGATGGGGCTCTCTCACAAAA GAATATTTGGGCGAGAAACCTTGAACCTGGCCACCGGACATCCCAATATCCCTCTCTCTCAGGG CTCACCCCGACATCCTCAGCCAAATGAAGGCTCTGAA
WI-6905	215 T A		---	GGGTGAGACGGGTTTATTGTGCACATTTACACAGCTCACAGGCTGGGCTGGCAGCGGCTGCTC CTGTGGTCGGGCTGCTCTACAAAGGGCTTCACTTTTCTTCCACACACTATGTACAGTCAGTCTCCAA GGTGATGGGCTACAGTGTCTGCATCAGTGAAGTGTGACACACATTTTACATAAATTACACACGACTC ATACATGAAAAAT/AJAGAGCCTAAGGGCTGTATTTTAAATGAGAAAAAA
WI-9420	202 G A		---	AACTGTTTACAAAAAGGCTTTGCAAACTTCATTACTGAATGTAAAGTCAATGACTGTGTTGTTTT TAAATATGTACCAAGGAAATACAAATGGATATGATCATTTTTCATGCTCAGGAGAGAACAGCAC AGAAATAAGGATACTGCACAGGTGCAAGGAAACCGGAACCCATTGTGTACACTGTCTTCACACAG [G/A]GCATTCTTCTCACCTTAAGTGCAGCTGTGCAAGATGCCCTCAGTGTG

WI-9448	184	G A ---	---	TGGGGCTGCTTTAGACTTCATTTCTAGAGCAGAGCACCTAGTGAGAGGAATACCTGGGAGAGAGAC TGCCCTTGCCCATGGTGGTTAAACCTACATGAGGGGACTGAAATCTCTTTGGATGCCAGTCCAGATCCC TTTTTAAGAAAAATGGGCTTGTGGTTCCAAGGCTGAGAGCTGGACCAAG[G/A]CACTGGTTCTTAAA TCTCTGGCTTGGATTTATCCAAAGGCATGTTCTTAACGTGCCCGTGAGCAG
WI-9470	204	G A ---	---	ATGTCAGAAGAGACACAGACAGAGGATTTTCCCTTTTAAATGCTAAACAAGTGCCACTAATCCACA GATCTGAAAAAGTACAGCTCTCCAGGTTGATAATCAGATCCAGGCTTTTCTTGTCAGTCCGCTTA TGAGATCAGGAATATGATCTCCCTAAAGCCCCAGATTCCTACTAGAGCCGCTGGGGACACTGATGAC AA[G/A]GCAATCAACTCATCTCCTCAAGCTCACCGGGCTCACCTTCCCAAG
WI-1245b	201	G T ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGTGCTGATGCAGATCTGCTGAGCCATGTCTGGCATCACAGGGGTGGT TTATTAATTTGATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCCTCTCTGAGGC[G/ T]CTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1245a	85	T C ---	---	GATGATTTCTGAAGTCTCAGCAGCCCTGATTTAAGCCTCATAAGGAAGAGTAGGTGTTAATGGCA TCCTAGGGCAATGGTAGGT[G/C]GCTGATGCAGATCTGCTGAGCCATGTCTGGCATCACAGGGGT GGTTTATTAATTTATTCATTTATCATCTGGACAGCCCTTCTTATAACGTACATCCTTGCCCTCTCTGAGGC GCTAAGATCCCCAAGGTGGCTCCTGTATCCAGAAA
WI-1031	149	G A ---	---	TTCAGTGATAAGGACAGGTCTAGAACAAAGCGTTCCCAACCCCTGGCACCATGACAGTTTGGACCAAA TAACTCTTTGTTTTCAGGGGACTGCTCTACACATTGTGGGATGTTAGAGCCTCCGTTGGCTTCTACCCA CTAGATGCCAGCA[G/A]CACAAACCCCTCCCAACAATCATGACAATGAAAATGTCCTTTAGACATT GCCAAATATACCTTGTGGGACAAAATGGCCCTGATTGAGAACCCTGTT
WI-5385	110	G A ---	---	AATGAGTCATTGTGGAGTTAGAGGAGGTTACTGAAAATGGTGACTCCAATGGTGGGATTTGAAGAGG GAAGTCTCGATAATTTAACATATGTTTTCTTGCCAGGAATCG[G/A]CAATGCTAATCTATTGCTTAA TTCTTTATCAACAGACTCTTTGAATCAATTTAGAGATACTCAGTGACCCCATGGCTAGAGTTCCTGAC CCCTGCTACGGGAAACATTGAATGCA
WI-5403	199	T G ---	---	ACCAAAACCGTTGGCAAAGGCTCCCCAAGACTCACCACCCCAACTTTGGTGCTTACCCTATGCCGGGTG GGATTGAAGAAATAACCATAAATAAATTTGCTACAATTTTCCAGTAGTTACCAAGGCACCAAGCCTAT TGGAAAGAAATCATAAATGTAAACCTACAATGTTGCTCTCTGCTTGGTGCCAGGCATAGAGTT[G/ JGGCTACAACCCATTTATCATTTGAACCCCTCAGAAGCATCCAGTTGGGGCT
WI-5801b	157	G A ---	---	TGGTATTTTTCCTTTTCCATAAATGTTATGATTAATTAGTGCTTTGTAGAAATTTGAAAAAATGTAAA TCAGAGAACAGAAAGAAATAAAGTATAGTTGAAACCTCTAACAAATTTTAGATTTTAAAGGCCTAG GGAAAGAAAGAGAGCCTGGGAA[G/A]AGGGAATGAGAAAAAGCACCAACCAAAAAAAGTGTGT GGCTTAAGGGAAGCCCAAGGAAAGTTAAGT

WI-5801a	48 A G ---	---	TGGTATTTTCCCTTTCCCTAAATGTTATGATTAAATAGTGTCTTTG[A/G]GAATTTGAAAAATGT AAATCAGAGAACAGAGAAAGAAAATAAAGTATAGTTGAAACCTCTAACAATTTTAGATTTTAAAGGCC TAGGAAAGAAAGAGAGCCTGGGAAGAGGAATGAGAAAGCACAAACCAGAAAAAAGTGTGT GGCTTAAGGGAAGCCAAAGGAAAGTTAAGT
WI-5696	61 C A ---	---	TTCTATTTAAATCCTGTGCCCATTTGCAAGACTGCAATTCAGTCTGCATGAGCCTTAGTTTC[C/A]TAA AAGCCCTCAGACCGAGGACAATGTTGAGAACTAAATGACTGCAAGTGAGCAATTCCTGTATTAA TACAACTGGACCAAGATGACTTTATAATAGTGGCAAGAGACAATCAGGCAGACTGGGAGGACC TTATAATAGATTATAAGGCTGGTGAGTTTATTTAACCT
WI-7461	153 C T ---	---	TATTACTAGGTTCATAGAGCCCCGTTGTAATGATAAATAGCCAAATAGTTAAAGAGGCTGCAGGCC AATTCTAACGCTCCTCACTTCCCTTCGAACCCAGCCTCAGAGATGACACTTAGGCTGCACATTCCTG TGGCAGGAGCTGTCTC[CT/TT]GTTCCCTGTTGGTCCCCGGAACCCAGTGTGGCTGGCACAGAG GAGCCCTGAGTAGCATGTCTGCA
WI-9716	221 G A ---	---	AGAAGACAGGAGCACTGGGATCAAGGACTGATAAACTCTGAGGCTTTAATGGTCCCTGTCTCTAAC GCTTTGGTATACCTTCTCTTCTGAAGACCAACCTTTCAAACTCTCAGAACACAGGCAAGATGCAT ATTCTAGTTTTGAGATGTGACTTCTTACATCTGGAAGACTAGATGAGTAGGCTCTCTTCTATCT CAATTGAAAATCTAGAA[G/A]AAACACCTAATTGGCTCATCTTGGATCA
WI-9760	49 C T ---	---	TTTTGTTAAGTCTTGTGAAGCCACACAGAAAGTGATCTACTCTCTTAC[C/TT]AAGTGTACTTTGCA TATATTTATGGGATGATCTATCCCTACTTAAGATTTCTCTCAGGTTAAATATTCATTTCTCT TTGTTCAAGGAGTTCTTATTGGCCTTCTTCTAAACCTTAACCATTCCTGCTTATTCCTGCTTGACA CATGCTATTTAATCAAGGTGACATT
WI-9855	31 A C ---	---	GAAACCTCGTTGGCTCAAAGGAAACTGTAG[A/C]JAAATCTTTTTTTTTTTTATTTTTTTTAACTC AAAGAGTGGAGTTTGCAATTGACCTGTGATGGCACGCTGCTCTTTGTTTGGTGTAATCCTCTAGT GGCACCTTGCAAAAGCAATTTAGAGCAAAAGGTGGTGCGCATGGAGTTGTGTGAGGTTGCTGAAAAG TAGCAATGGAAGAAAGGTTAATGGA
WI-10312	41 A G ---	---	AAGCCCCAGTGGGAAAAGCAGACAAAACACTCCAAGAATAC[A/G]AGATATAAAACATCATCA GTAGAGATGGGATGACCTAGGAGGTCACTGCTGATGAGGCGATGCAGACCAAAAGACATTTGGGTCT TGAGGGTTGAATAGGAGTTTGTCTGGTGAGTCTTGCCCCAGTCCCATAGTAGGTGTTCCATAAATAAAC AGTGACTAACTGAGGTAGAGTCACAGAAGAAAATTCA
WI-11152	179 C T ---	---	GATCTTTGGACATGCAGAGCAGATACGGCAAGGCATCTTGGGCATTTGGAAGGAAACGAGCCCTA ATTCATAGAAACAGACTCTACAAAGGACCAGTTAAAGTCTCGCACCAGGGGACTGGGTGGCCAAAG TCAGTCAAGGCATAAAGGGGACAAGTGGGACAAAAGGCTTGTC[A/C]TCTGTCAGAAAACATTGAA AACAGCCAGTACATGCCACTGATAGA

WI-1968	167	A	G	---	---	---	TGGTGAGGAGCTGAAGGCTGAAGAATAGTCTCTGCTGGTCTTTTCGTTGGAAATGGATGAGTCTCT TTTACAAAATTTTCTCTTCCATGGGTGTTATGTTAGAAATCATGGAGTTGGAAGACTTTAGATTCA ATTTGGGGCTGTACAGTTTACTGGAAGTTGT[A/G]TGAACCTTGAGCAAGTGCTCTTAATGTCTCTCA GCCTCAATGCCCTTCCCTGTAA
WI-4701	198	G	A	---	---	---	GGGTTCAATTTAACAGCCTTCCCACTGGGTCTCAGATTGCACGGAGATGTAAAAATAGGAAGAGATAG AAAAATGGTGCCCACTATTGACTTGATAACACCTACAAAACAACACATTAAACTCTCCTCCCACTCTA CCCGCCAAAGTCTACCTTTTGTTCTTTTATTTCTGCTAATGACCATACTATTTCCCAATTAGA[G/A] CCATGTCATTTTTCAGAAAAGCAGTATA
WI-4823	164	C	A	---	---	---	TTATCTTTCCAAACCATGTGTGTTTTCTTCACATACTTTACGTAATTTTAAATCATGTCTTTAAATTA TGCACCTACTTTGGCTACCAAGACATGCTTCCCAATTGTAAATCCCTAACACAGCAAGCATAAAT GATGTGCCATCTTTGTATTCTCTAAAC[A/G]AAAGAAAAGTGCTTTTGTGCATCTGCCCTCTCTGT CTTCTCTGTTTCACTCTCTGTAATTTCCCTATTTCAGCATTCATGATTA
WI-4860	72	A	G	---	---	---	AAAAAACAACTTCATTTGACATTTCTAAGAAGATAAAGAAAAACAACGATCCACTGTGTGTTGCTT GATTT[A/G]GGAGATAAAACCTGATCTCTAAGAAAAATTAACCAAAAGCAGTACACTAAAA TAGCCT TTGTGTGTGTTTTAGGAAAGAAAGCCAAATCCAACTAAGTTGCTAAGAAAAATAATGTTTCATATCA CTCTAACTCCACATAGAGCATTAATATAGCA
WI-9705	111	C	A	---	---	---	TGAAAGGACCAGTTCGAATGCCTACCAAGTAAAGTAAATCGAGGGGCGAGGAAGTAGGAGTTGCTT CCGGATGTTGCATAAATTCAGGTTCTTTAAGGAGTTCCGCTGCC[C/A]AAAAATTGTTAACACTGATGC TGCTACAAACGCACATAGAAATCGGTGTAGATTGCGGTTCTAGTAAGTAGCTAATGTTTAGATA TGATTGTTGAATATTGTCGTCGTTCTGGTG
TIGR- A004Z48	177	A	G	---	---	---	CAAAATACTCTGCTTAGAAGTTGCTCTAGGGCCATGGATTCATGTAAAGGTGGGCGAGGTGGACTG AAGATCTGTTGGCAGGGCTCAGAGACGGGGGTGAGGGGAGAGATCGTGGGTTCATGAGATCCCAT CTTGGGCAATACGGTTATCCCGTGGTCTTCATACGCCACAG[A/G]TCCTCCAATTCAGGGGCTCCC GTGGGATGGTGGAGCCCAATGAAGACCAGGTAGATGATGCCACCTAGAGATG
U17579	34	T	G	---	---	---	GGGATTCATGTGTCTGCTCATCCATAAGCAC[T/G]CATGACCTCAGCCCCATACTCTTCTTCCC TATGTTCCAGAGACAGAATAGACCTGGCCCCCTCTCTAGGGGATCACAATATTGGAAGGATGAG GACTCCAAACAGCCAGCTCCCATGCCAAATAGAAGCATGAGTGTGGGATCAATTTCTATGGGAGCC TGGGGAGAGGGATCCTTCTAGTTGA
WI-7747b	88	T	G	---	---	---	GTGAGAGCGAGGCTGAGCCTACAGATGAACCTCTTTCTGGCCTGCTTTCTGTTAACTGTGTATGTACATA TATATATTTTTTAATTTGAT[T/G]AAAGCTGATTACTGTCAATAAACAGCTTCATGCCTTTGTAAGTT ATTTCTGTTTGTGTTGGGTATCCTGCCAGTGTTGTTGTAATAAGAGATTTGGAGCACTCTGA GTTTACCATTGTAAATAAGTATATAATTTTTTATGTTTTGTTCTGA

WI-7747a	44	T C	---		GTGAGAGGAGGCTGAGCCTACAGATGAACCTCTTCTGGCCTGCT/CJTCTGTTAACTGTGTATGTAC ATATATATATTTTAAATTTGATTAAAGCTGATTACTGTCAATAAACAGCTTCATGCCCTTTGTAAGTT ATTTCTTTGTTGTTGTTGGTATCCTGCCAGTGTGTTGTAATAAGAGATTTGGAGCACTCTGA GTTTACCAATTTGTAATAAAGTATATAATTTTTATGTTTGTGTTCTGA
WI-7189	197	T C	---		TCCAGAAATTTCTCTTCAGCTCATTTTGTCTCTCACAAATTAAGGGAGTAGGTTAAGTGAAGGT CACATACCATTATTTCCCTTCAAAACAATAATATTTACAGAGCAGGAGCAAAATATGGCCTTT CTTCTAAGAGATATAATGTTCACTAAATGTGTTATTTTATATTAGCCTACAACATTTTTT/CJAG TTTGCAAATAGAACTAATACTGGTGAATAATACCTAAACCTTGGTTATT
WI-7850	57	G A	---		AGCCCCAGCTGGACTCATGGATGTGCACCCCTTGTCCCTGCTCTTCTGCCTCTGG/CJCTCATGTA TCTGGCAGCTCTGGTACCCCTCTGTGGTGCCATCTCTACCTCTGACACAGACTGCCCTGCCCTGAAGCT GAGAAAGGCACAGGGCAAGGAGCCAAAGGACCACAGAGCCTCAGCCAGCCAGGATCCGTCCTCATTTT ATTGGTGATGATGAATGGGAATGAATCAGGGGGCTGTCTACTAGGCC
WI-7907	69	G C	---		CTCTCTCTTCATCCCATCACCCCTAAATAGGTCAGGTGAGGGAGGCTGGGAAGAGGTGGGAGGAGG G/GCJAGAAGTGAAGGAAGATAGGAAGATATACCTCTCTGTTATTTTTTAAAGAAACATTGTTT GGTGGCAGCAATCTCCCTGTCCCTATCACTGTAGAGGCCCTAATTTTATCTATAAATATATTAAAA AGCAAGTCAAACTTGGATGATCAAGGTAAATTAATGTCAAAAGTTTAAAT
WI-7919	242	T C	---		GAAGGCAGCTGGATCACTTCCCGCAGTCTTGGGCAGCGCTTGTGTGGAACACGAGAGCTCCTCCT CAGGGCCCTGGCACTCACTTCTATCTGTATGATGATTTGGTTAAACACTGTCAAAATAATAGAGAT GTGCCAGATTTAGATTTTCTTACCCTAATCTGTTTAATATTGTAACCTTTATCCCATTTGAAAGTGCA AGCCCAATTCAGATAAGCTATAATCTGGTCTTTAAGGAA/CJACAACTTT
WI-7928	101	T G	---		CTCCCTCCTATGTCTCAGCAGCACGTTGGGGCACACTTGTTCATCTCTGACCGTTTGTGGGCTA TTCCCTGCGAGTGCAGACATCGTCAAAATTCAT/GJACAAGAGGAAATTTTCATGCAGAAAGCTGTA TGCAGGATGCTCACTGATGTTTGCACCTTAAACCTGAAATTCACCTCTTTATATAGGATTTTCTTTT CTATCTCCATCTCCTCAATTAATAACGTACATTTTCGAGGTAATGGTA
WI-7936	131	T A	---		TTTTGAGTCAAGACTTAAGGGGCCCCAATGAATTAATATATACATACTGCATCTTGGTTATTTCTGAA GGTAGCATCTTTGGAGTTAAATGCACATATAGACACATACACCCAAACACTTACACCAAACCT/A ACTGAATGAAGAAAGTATTTGGTAACCAAGGCCATTTTGGTGGGAATCCAAGATTGGTCTCCCATATG CAGAAATAGACAAAAGTATATTAAACAAGTTTCAGAGTATATTGTTGAA
WI-7944	99	T C	---		TACAGTTTCCAGCCCGTTGCCCACTCATCTCGCGCTTGTCTTTGGTGGGGGAGATGGGTTGG AATGCTTTCCATCTCCAGGAGACTTTTCATG/CJAGCCCCAAAGTACAGCCTGGACCCCTGGTGTG TGTAGCTAGTAAGATTACCCCTGAGCTGCAGCTGAGCCTGAGCCCAATGGGACAGTTACACTTGACAGA CAAAGATGGTGGAGATTGGCATGGCAATGGCAATGAACTAAGAGCTCTCAAGTCA

WI-7805	101 A G ---	---	---	TTTCTAGGCTGTACAGTCTGATGCATGATTTTTTATAAATATTTTATACACTCTTGTGAATTTGGATCTT TTTACTTTGAGCATATATTTAGAAATATGTGTAGTAAAGGATCTCCACAATGTCTGCAGTGTG AAGCAGGTTTCATTTGGAATAGTTTAAACAGTCAGGAAGGCTAAACTGGTCAGTATTAATGTGTAGC CCTACCAAAAATAGCCAGTAGTATCTGAAAATGAAAAATAAATGAAGTAT
WI-7416	137 G T ---	---	---	GGCCAGGAGATTAGCAACAAGGATTCATTCTGTACTTACTTGGCCCTTTTATCTTCCCTCTGGCC CAGTCCCTTCTCCAGCTTCATGTGAAGCTCTGCACAGACAAGACACTCAGTGTCTTGGCAGTGCT [G]TCTACTCCTCAGGTGCAGCATACATAACCCAGTAAGAGACTAAATCTGCAATATATAAAGAGCTC CTACAAATCAGTAACATGAAGAACACTCAAAAATTGGCAAATGTCATCAG
WI-140	252 C T ---	---	---	ATTTGAAGATTGGAGGCTTTGCAGAGGAAAATAGATTTCAATTTGGATCCCCAAACTATAATGACA AGTTTTTAATAGGTGTGATCAAGGCTTCTAAAGTGAAATGCAAGTTGTTACCAGTAAAGTTTATA TCTTCATTGAGCCAGCTCATTTGCCAGAAAATTCAGGTGAGTGGATTGGCCAGACTATCTGGCAAG GATGAAAATTTTAGTTTAAAAATGTGTCATTTGTCTGTATTGGCATTCCT[C] GAGGCTTTCAGCAACATGGAAGCCCTACTGCTTCAACCCCGAGTCCCGGATCAAGTGTCTGGCACC CATGATGGAACCTTGGCATGGTTTTAGTACCCTGGACCAAGTAGTATCCATCCTGACTTTAAAA TTCTAAACAGCCTTTGATGGGACAATCTCTGCTAAAGACTAACCCACTTCCCTTATCTTATCTTCAGCTA CCTGCTCCCTTTC[C]TGTTTAAACAAGCATAGATAATTCGAACAAC
WI-198	218 C T ---	---	---	TTTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAATAAGCCTCATCTCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTTCAT GCATGAGTTTG[C]CCAAAGGCTTGATGGGAAAATCTCAACATTTGTTACCTAAGAAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCCTTATTTTGTAGTCCC
WI-205c	146 T C ---	---	---	TTTCATGGTCCCAAGACAGATTTTAAAGAAAGAAAATAAGCCTCATCTCTAACTATGACTTGGTCGG AAGCCAAGAACCTACTTCAACATTTGACCCATAACCTTCTCTTGAGATGATGGCTGACTTTTTCAT GCATGAGTTTG[C]CCAAAGGCTTGATGGGAAAATCTCAACATTTGTTACCTAAGAAAAGAGGATGT ATCTTACTTTGTTTAAAAAACTGCATATGCCCTTATTTTGTAGTCCC
WI-205b	146 T C ---	---	---	GAAGACTGAGTTTCCAGGAGTTGCAGCCGTTTCTCTCGGGCCATATGGCTAATAAGGAGCTTGAGCA GGGATTCACCTGTTTGAACCCCAAGTNCCTTCCAAAGAGGTCTCAGACTACCTCCATCTCCCCCT CTCCCCACACACAAAATACAGAGATTG[C]AATTCAGGAGCCAGTTTCTAGGTGGGCTTTGAGC AATCATACACAGTAATCTCTTGGTGTCTTGTAGTTTCTCAAAATGGGAAATGG
WI-234	165 G C ---	---	---	AGCTTTTGAAATCCAAAACCCACATTA/GCTTGACTCTCTTATCCTCCTCTTGTGTAACATCTATCC CTGAGGCAGAAAATACAGAACCCCTGTGGCTGCTGAAAGGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAGCATCTCTCTGCTGAAAGACCTCTCTGAAAGACATGAGCTATTAGGAGC TCTGGCAAGGGCTTTGTCTTATCCTCTCTGCTATCCCTGATGACTGGGCAA
WI-276b	25 A G ---	---	---	

WI-276	25 A G ---			AGCTTTGAAATCCAAAACACATTA/GCTTGACTCTCTATCCCTCCCTCTTGTTGTAACATCTATCC CTGAGGCAGAAAATACAGAACCCCTGTGGCTGCCTGACGAGGAGGATGGGGCGGGGAGACAT CGGTCAATGTATCAAAGCATCTCTCTGCCTGAAAGACCTCTCTGAAAGACATGAGCTATTAGGAGC TCTGCAAGGGCTTTGCTTATCTCTCTCTGCTATCCCTGATGACTGGGCAAA
WI-427	59 G A ---			TTTCCCAATCCACAGGTAACATAATATGATGTATAGAAATTTAGAACTACTTCC(G/A)GTTT TTCCCTGGGAAAATATTCACAAAACATTTGGTCTGCAATCAGGTTAAAGACATAGTGTGCCA TTTGTCATCAGACAGGTAGAGGCTGACTCTGGCAGGATTAGCTACCACTAGCTGTGAGACTTTATGT ATTCATTATTAGAGCCAGGCTTGCTCTGTCACCCAGCTTTCAGTGCAGT
WI-562c	106 T C ---			CTCTCACTCCAACACTATATTGCTTACTTAATGTTACAGATTAAAGCCAGAAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATTTTAA(T/C)AAATGGTCTTTTATTTAAAAAAA AAAGNTATCTAAAGAGAAAACCAATAATACTCTCAGGTAATTATGGCCACAGCCAAAACCACTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562b	106 T C ---			CTCTCACTCCAACACTATATTGCTTACTTAATGTTACAGATTAAAGCCAGAAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATTTTAA(T/C)AAATGGTCTTTTATTTAAAAAAA AAAGNTATCTAAAGAGAAAACCAATAATACTCTCAGGTAATTATGGCCACAGCCAAAACCACTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-562	103 T C ---			CTCTCACTCCAACACTATATTGCTTACTTAATGTTACAGATTAAAGCCAGAAAAGGAGCCCTGTCTC AATACACTAGATATAGTTACTGTGATTATATTTTAA(T/C)AAATGGTCTTTTATTTAAAAAAA AAAGNTATCTAAAGAGAAAACCAATAATACTCTCAGGTAATTATGGCCACAGCCAAAACCACTCT TTCTAAACCTAAAGACTCTCATAAAGGCCCTATCACATAACTTCTCCACTTCC
WI-597c	141 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG(A/G)TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAATTATTAA TTGATCTAATATTCTTCACTAATAATACCTGAGAGAAATAAGTCTATTTAAT
WI-597b	141 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GATACATG(A/G)TAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAATTATTAA TTGATCTAATATTCTTCACTAATAATACCTGAGAGAAATAAGTCTATTTAAT
WI-597	136 A G ---			GTGTAATTTGGTGGCTTTGCAACTTTCCACAGTAACCTTTAGAAATNAAAGGTGGAAGGTAAGG ATGAGGAAGAAGAGGGNGTAAGAAACAAAGATGTCTATGTTGAAGAAGTATCCTTAGGATATTCT GAT(A/G)CATGATAATGACCCCTCCATGACTCTGGTACCTCATCATACCAATGTGAGAATTATTAA TTGATCTAATATTCTTCACTAATAATACCTGAGAGAAATAAGTCTATTTAAT

WI-611	66 G C ---	---	---	TTCAAAATTTAACACCAATTGGGTATATTATAATTTNGCTCTATCCATAGTTCTAACCCCTCTTCTCT[G/ CJACAGTGAGACACCTGCCTTCTATTGTCCTTGACGTATTAACTGATTCGATCAGTCACCCATCTGGA ACCAAGGTTTCATTTCTGCTGACCCCTCCCTCCCTCACCCCTACTTGGGCTCTGACTTCCCTTCTCTCTGGCT GAACCTTCTCTGTGTGGCTGTCCGCCCTTCCCTGCTGGCTCCCAATAC
WI-681b	156 A G ---	---	---	TGAAGCCCTCTCTCTATACCCAAAGTGTCTTTATCTTAAATGCTGTGGTCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACTTTGNCCTGGTATGTCATAAGCAA TCCATAAATTGTTATAGCTATT[A/G]TTATACCTATGGCAACCATTTGGACACAGATTATATATGTCAGA CACCACGNATGTCTTTAAGATATGCAGCAAGCAAAATCTGTCAATGGTTT
WI-681	156 A G ---	---	---	TGAAGCCCTCTCTCTATACCCAAAGTGTCTTTATCTTAAATGCTGTGGTCAAGTATCTACCCCTTA GGGATATTGTGAGAAATCAATAAGTTTCATACAGGGGAAGCACTTTGNCCTGGTATGTCATAAGCAA TCCATAAATTGTTATAGCTATT[A/G]TTATACCTATGGCAACCATTTGGACACAGATTATATATGTCAGA CACCACGNATGTCTTTAAGATATGCAGCAAGCAAAATCTGTCAATGGTTT
WI-867b	119 G A ---	---	---	AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTCACTCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCCCAGGGACGTCTCTTTCTAATCCCTGAAACCTGAGAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAACAAAGCACACATTAGAAACTTA
WI-867	113 A G ---	---	---	AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTCACTCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCCCAGGGACGTCTCTTTCTAATCCCTGAAACCTGAGAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAACAAAGCACACATTAGAAACTTA
WI-867	119 G A ---	---	---	AATCTTAACAGCCCTTTTGATGCCAAAGCCACTTTCAGTCTTAATCTTTTGGAGCCTAAGATCAGTG CAACCCCTCCAAGGCTCCCGAGTATCTGGCACATCTTCCCTTTTCACTCTCC[G/A]TTGTGTGTTGGC CAAATAATATCTCCCCCAGGGACGTCTCTTTCTAATCCCTGAAACCTGAGAAATGTTATCTTATGTC AGTGCTATGGTTTGAATGTGTCCTCCCAACAAAGCACACATTAGAAACTTA
WI-871b	123 C G ---	---	---	TCATCAGACCTGAGATTGAGCATGAAATCTACCAAGGTACCAAAATGTAACTTGTCCTCAAAACGA ATCTCAGTTTCTGCATATGTAAATGGGAATGATAAGAGCACCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAAATGAGACATTGTAAGTAAAGTTTGTAAATGCACGTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTAACACCCCAATATGNCCTGTTTGTACATAA
WI-871	123 C G ---	---	---	TCATCAGACCTGAGATTGAGCATGAAATCTACCAAGGTACCAAAATGTAACTTGTCCTCAAAACGA ATCTCAGTTTCTGCATATGTAAATGGGAATGATAAGAGCACCACCTACCTCATG[C/G]AACTGTT GAGAGAAATAAATGAGACATTGTAAGTAAAGTTTGTAAATGCACGTGTTATGGCCTGAATTGTGTACCC TAAATTCATATGTTGAAGCCCTAACACCCCAATATGNCCTGTTTGTACATAA

WI-884	198	T C	---	---	AGGTTCTGGACCTGATGCTGGGAAACAATTGGGTGCTGGAGAATTCCTATTTGAGNTTTCACAGAT CAGTAGAGCCAAATGGGAAAGGTATCCTAGTCCATCCCTTTATTAGAACTTCTCTGATCTATTGGGA ACTTCTCTCTAATAGATCAGGAAATCCACCTCAITTAATCATGGACAACNNAAGGAATAIT/CJG ATCCCGATGCAACATTTATTCAGTGAACACATGATGAAATGAACATAAT
WI-921b	205	G A	---	---	CACITCCCAAGGCTCTGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGITTCGACACTGACTGA TGCTTTGCTGCAGGGCTCTGCTCTGAAGCCGACACTGCCAGTGGACACAGGACAGITTAICTGG CAGTGATGCTCTCACGCTGCCCCCAAGAAAGTCTNGCCAGGAAAGCAGATCCCATCTAC TCT/GA/IGGGAGAGATCTGACAAITTAATCAGGAGGAAGAAATCTTCCGAG
WI-921	205	G A	---	---	CACITCCCAAGGCTCTGGGGANGAGCGGTGGGACGCTGCCGGGAAGCAGITTCGACACTGACTGA TGCTTTGCTGCAGGGCTCTGCTCTGAAGCCGACACTGCCAGTGGACACAGGACAGITTAICTGG CAGTGATGCTCTCACGCTGCCCCCAAGAAAGTCTNGCCAGGAAAGCAGATCCCATCTAC TCT/GA/IGGGAGAGATCTGACAAITTAATCAGGAGGAAGAAATCTTCCGAG
WI-945c	90	G C	---	---	GGCTGGGATGAGAGGTCTACTTGTTGTTACTGGAGGTTTCACTGGCTTGCTAGAACTAGNAAAGNA GAAAGAGACAGNGATTGGCTAAC/G/C/CATGGCAGTAGTGGGCCCAAGGCCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAAGTTCAAACANTAGTGCAGCACANNNGGTT TTCTCTGGTCATAGAACTCTTTAAAGGGAATCATGACAGATTTTCTTGGCTTTA
WI-945b	90	G C	---	---	GGCTGGGATGAGAGGTCTACTTGTTGTTACTGGAGGTTTCACTGGCTTGCTAGAACTAGNAAAGNA GAAAGAGACAGNGATTGGCTAAC/G/C/CATGGCAGTAGTGGGCCCAAGGCCTGAGTAATAAGAAA AAATCATTAGATAAATGTCTCATGACCAAAACAAAGTTCAAACANTAGTGCAGCACANNNGGTT TTCTCTGGTCATAGAACTCTTTAAAGGGAATCATGACAGATTTTCTTGGCTTTA
WI-960b	167	C T	---	---	TTGCTTCAAAGAAGTCTTGCTCAGGAAGTTATTCAATTCAGCAACCTAAAATTTTGTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGAT/GA/TTAAGTTATCTCCTTAGAGGTAAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-960a	155	G A	---	---	TTGCTTCAAAGAAGTCTTGCTCAGGAAGTTATTCAATTCAGCAACCTAAAATTTTGTGAGTACAT ATCAAGCACAGGGTTCTGAGCAATGTCTTAGGAAGACCATAAAGGTGAATAAATGAGTGTCTTACC CTGAGGAATTTATCAAAGAT/GA/TTAAGTTATCTCCTTAGAGGTAAAGTCATATAGGCATATTCT ATGTATACTAAAGGTGGTATGGCATAAGAGTACATA
WI-1121	181	T C	---	---	TCCACTGAGTATGGCTTCAGTAGTTTATTATGATGCGCTAGGTACATTTGTTTTATTGTTCTG CGAATTGTTGTTACTTTGGGAGAAATGCTCAACTATAAATATGCTTCTGACCCCTTTCTGTGTTG CTTCTTAAAGATACAAAATAAATGTAACATTAGACCTCTCACTA/CJGCTGTTTTTACTCTCCTCTG ATTTTTTTTCCATTATTTTATTGCTGCTGCTTCAATTTTGTAATNTG

WI-1147b	204	G A ---	---	---	TTTGCCATTATTTGAAGATAACCCACACCTTGGTGCCAGGGTTTACAGGTTATTAGTGGTCAGTCA CATAGGCATATAGTACCTGTATGACTTCTATTCCAGCCACGCAACTTCTCCTCCTCCCTGGCTC CTGAGCCAAAACACAGGCATTTACATAAATCACCTTTGTAGGATGAACCTATCTGGCCAAACTGATA C/GA/GCATGACCCACAGCCTCAGGTATATAAAACACTCTCATCAGGCAGA
WI-1158b	147	C T ---	---	---	GCATTAGAGGGTTCGTTAATGACATTCAGTGGCCCTGCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAATGAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG/C/GGCCAGGT TAAGTCTGGGG/C/TJCTGGGGTCAGGCTGCCTGGGTGCATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1158a	124	C G ---	---	---	GCATTAGAGGGTTCGTTAATGACATTCAGTGGCCCTGCTATGTCAGGCCCTTGGTGTGAAGA CGCAATCATGAACAAAATGAAAATACAATGTGATGGTCTCCTGAGTGTCTGAATG/C/GGCCAGGT GGCTAAGTCTGGGGCTCTGGGGTCAGGCTGCCTGGGTGCATCCTGGCTCCAAACTGCTTTGCTATG GCT
WI-1304	124	T C ---	---	---	AAGTTACAGAAAAAATACCAGAAAAGTGACTTCAAGANTCAGCTGAGATAGAAACATATGCCCA TCATCTTCAANGTNCACAGACACTTATCCCCTAGACAGCCATTTCTTTTGAATGNT/CJGNCANT AAAAATGATTTGAAATTGGGAATAAAGCCCTCCCTCTAATGATTGACAGTGTAGACCTTGCCTAG GGC
WI-1305d	202	C T ---	---	---	TTCTCAATTCCAATCTGTGTACTTTTATTTCTTTCTTCCATCTATGTTGGTAAATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAGATAAGGTTTTCCTCACA TCCACTGCTTTCANTAAATNACTCCACTNATGCTNACAAAATNACACTGTTTAAANTGNNATATG/C /TJAGGGCGANGTAATANGTATACAGNGANTCATACAGGCCCTGCCTACCA
WI-1305c	46	C T ---	---	---	TTCTCAATTCCAATCTGTGTACTTTTATTTCTTTCTTCCATTC/TJATGTTGGTAAATAAAG ATGATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAGATAAGGTTTTCCTC ACATCCACTGCTTTCANTAAATNACTCCACTNATGCTNACAAAATNACACTGTTTAAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATACAGGCCCTGCCTACCA
WI-1305b	153	T C ---	---	---	TTCTCAATTCCAATCTGTGTACTTTTATTTCTTTCTTCCATTC/TJATGTTGGTAAATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAGATAAGGTTTTCCTCACA TCCACTGCTTTCANTAAAT/CJTNACTCCACTNATGCTNACAAAATNACACTGTTTAAANTGNNATA TGCAGGGCGANGTAATANGTATACAGNGANTCATACAGGCCCTGCCTACCA
WI-1305	202	C T ---	---	---	TTCTCAATTCCAATCTGTGTACTTTTATTTCTTTCTTCCATTC/TJATGTTGGTAAATAAAGATG ATTGTGCAAAAGTATTTAAATATCGTCTGATTATACCAATTTNCAGAAAGATAAGGTTTTCCTCACA TCCACTGCTTTCANTAAATNACTCCACTNATGCTNACAAAATNACACTGTTTAAANTGNNATATG/C /TJAGGGCGANGTAATANGTATACAGNGANTCATACAGGCCCTGCCTACCA

WI-1306b	248	A G ---	---	TTTCTGCAATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAATGGACAATCTTGTTGNNNNNTNG GGCTGGGTGACTGTGCGCTGGGTCAATTTAGAAAGCCATAGAGATGAAAGTAGCCTGCAATAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAAGTGCCCTNNTTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTTATCTTCC[T/A/G/GC]
WI-1306	240	A G ---	---	TTTCTGCAATTGGAATAGTTGACTTCTATGAGNNNGCAATAATAATGGACAATCTTGTTGNNNNNTNG GGCTGGGTGACTGTGCGCTGGGTCAATTTAGAAAGCCATAGAGATGAAAGTAGCCTGCAATAAAGAGGA AAGTGAAGCTAATCTGAAGCTGTGACCTAAGGNGAGAAAGTGCCCTNNTTTCTGATGGCTTTTCAGT CTGTGAGTACACTCCTTTGTGAAGGCCAGTTGAAATTT[A/G]TCTCCTAGC
WI-1307b	118	T C ---	---	GACAAAGGTGGTACTAGTTCCAAATCCAAATCTATGTACACTTCTCCTCCTCCTCAAGTGGACA GATTTCTGCATTATACTGCTGGGTTGGGGAGCAGTGGTAGGCAAT[C/G]TGAGATTGCTTT CCTACCCCTCTAAATGTATCTTNCATTAATATGCTAAACCGGTACTGTGATCTATCACTGGTT TCTTTTGGTGTGTTGTTGCTGTTGTTTCTCCTGTAAGNTGTTT
WI-1307	118	T C ---	---	GACAAAGGTGGTACTAGTTCCAAATCCAAATCTATGTACACTTCTCCTCCTCCTCAAGTGGACA GATTTCTGCATTATACTGCTGGGTTGGGGAGCAGTGGTAGGCAAT[C/G]TGAGATTGCTTT CCTACCCCTCTAAATGTATCTTNCATTAATATGCTAAACCGGTACTGTGATCTATCACTGGTT TCTTTTGGTGTGTTGTTGCTGTTGTTTCTCCTGTAAGNTGTTT
WI-1325b	169	T C ---	---	GAGAGATGGCCAAAGACAAGCAGAGGGAGAGAGAGCAACCNCTCTGTGGTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATAGGCAACTACAATGTGCTTGTCTCTC[T/C]ACCCCTCAGAACTTCTTGAGGGGCAGGC ATTATGATCCCACTTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
WI-1325	165	C T ---	---	GAGAGATGGCCAAAGACAAGCAGAGGGAGAGAGAGCAACCNCTCTGTGGTTTATCGCAGCAAGCN ATGCTGTCTCCATACCCAGAAATGAGCATGTGCTCTCTATGTATAGATCAGATGACATGGAGAC ATTCAATAGGCAACTACAATGTGCTTGTCTC[T/C]TTCCTACCTCAGAACTTCTTGAGGGGCAGGC ATTATGATCCCACTTTACATCAGTGGGAATTTGGACTTGGTGAAGTTAGGTT
WI-1327b	162	T C ---	---	CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAGCTGTGTAGTGCAGAAGTCTGTTATTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTCAGGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTG[T/C]GAAGTTGGTAGCTACCAAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCCATCTCTAAG
WI-1327	175	C G ---	---	CTACGATAATTAGGTTTGGCAGTGAGGGTATTAAGCTGTGTAGTGCAGAAGTCTGTTATTGTAAA ACACCAAGTGGGTTTAAATGGAATGCGTATGTGTGAGTNCATATTCAGGACAGGCTGGGGANGACTC CAGCGACACTATGGAGCTGAGAGTCTGTGAAGTTGGGTAG[C/G]TACCAAGGCTCCCCAAATGTAGT TCTTNGCTGAAAGTCTCTCCTTACTGAAGAGGCAATGGTTCCATCTCTAAG

WI-1341b	136	G A	---	---	TATCAGCATGATTGGCTGTGGACACAAAGTCAATTTGTACTTTTGNNGNNNTCCCTTTCTNNTT ACCTGATCCACTATCTCTCAAGATCANGTTCAAATTTGGCTTCTTTGTTNAATTATACCCCAAGC [G/A]GGATTGTGATGGATCTGTTTATTTCTGTGTCTTGAACAGCAGAGTCGTCTCTGNGAGTNTG GTTTCAGGATTGTCTCTGTTTCCCAAGCCACTTGCACTTAGCAAGTGT
WI-1349e	192	G C	---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATAATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTGAGAAATA
WI-1349d	264	C A	---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTGAGAAATA
WI-1349c	192	G C	---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATAATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTGAGAAATA
WI-1349b	264	C A	---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTGAGAAATA
WI-1349	264	C A	---	---	CTGACAAATGTCATATCTCACTCTCTAAACCCACAGGTCATAGATCAGTTAGCTACCCCTCAATCCA GCAACCCAGCTTTGAAATGGATGCAGGGCAGGTGGTAGGTGCTGGCCTGTCAGTTTGATATATATG GCAGGTGCTCAACAAATGTAGATTCAGTGAAGGATAGTCTGAATTTCCATCTCTGAGTTCAAAATA ATTTGAGAAATATGATAGAAATTTGTGAAGTACTAGATTTGAGAAATA
WI-1403b	57	C T	---	---	TGGTATTGGAATGGGTTGAGACTCCGGTCTCGCTTCTGACCTTTGGTAAGTTG[C/T]TCCGAAT GCCACTTTATAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACGT AAAGTTTACATCAACATAATTTGCCCCTGCATCATGCAITTTGGCAATATGCACATAGCTGTCCTCA TAATCCCCAAAGTGCCAAAAGGGTTGATCTGATTGT
WI-1403	58	T C	---	---	TGGTATTGGAATGGGTTGAGACTCCGGTCTCGCTTCTGACCTTTGGTAAGTTG[C/T]TCCGAAT TGCCACTTTATAAGTTAGAGGTATTACCTTGGAGGGGGGACGTAGAGTAAGCCATAAAATATACG TAAAGTTTACATCAACATAATTTGCCCCTGCATCATGCAITTTGGCAATATGCACATAGCTGTCCTC ATAATCCCCAAAGTGCCAAAAGGGTTGATCTGATTGT

WI-1417c	31 C T ---	---		CAGCCGGAAGAGATTACGTGGAGAGATGTC/TJTTGGCCAGGGCGGGCAGATGTGAGCCCCACGGG GGTGACAGCATGCTGCTGGCAATTTGGAGGGCCCCAGAAAGAAATCCAGTGGCCCTCTCAATGACTTG GGTCTCTGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGGTCCGGTTTTGAGGCGGTTGC AGGCGAGGCCCTTAGGTCGGTATTAAATGTTTGTCTTTGTAGAAAAATCGC
WI-1417b	31 C T ---	---		CAGCCGGAAGAGATTACGTGGAGAGATGTC/TJTTGGCCAGGGCGGGCAGATGTGAGCCCCACGGG GGTGACAGCATGCTGCTGGCAATTTGGAGGGCCCCAGAAAGAAATCCAGTGGCCCTCTCAATGACTTG GGTCTCTGACTTCGGAAGTTTAAGGGCTCGGCTTCAAAAAGCTGGGTCCGGTTTTGAGGCGGTTGC AGGCGAGGCCCTTAGGTCGGTATTAAATGTTTGTCTTTGTAGAAAAATCGC
WI-1729	172 A ---	---		CCATGAGCAACAGCATGTTCTACTCTGTGATGTATGTTAGGGGGCATGTATCTGTATTTCTT TTTTATTCTCTCCAAAAGAAATTTCAATATGCAAAACATTATCAGGCAATGCAGCTCGTAATAAGA TGTTGGAGAACTGAAAAGAGAGCTTACATGCACCCCAATAGCAAACTCTCCACACATTTCCAGCA GATGATGTGTCTCTCCGTGGTNAOCTTCTCTCCACCACCTGCTGTTTTT
WI-1732b	122 T C ---	---		TGCCTTACTTCTTTGTTCAATCCACCATTACATTTGTAAATGGAACTTCTAGGAGGTAGAAGGA TATGCTGATCAAAAAGGGGACATATTCAGGAGTNTCCCTGGGTCAACCTTTT/CJATTCAAGTCT CTGCCACATGCTAGTAAGTGTGATGGTGATGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTCACTACTATTCAATCATATTGGCTAAGGTATTCATCATATTGGCTAAG
WI-1732	114 C T ---	---		TGCCTTACTTCTTTGTTCAATCCACCATTACATTTGTAAATGGAACTTCTAGGAGGTAGAAGGA TATGCTGATCAAAAAGGGGACATATTCAGGAGTNTCCCTGGGTCAACCTTTT/CJATTCAAGTCT CTGCCACATGCTAGTAAGTGTGATGGTGATGCATCAGTATAATCCTGAGCCTCCCAAGGTACAGC CTTCACTACTATTCAATCATATTGGCTAAGGTATTCATCATATTGGCTAAG
WI-1750	97 A G ---	---		GCGAATTTAATGACTCCAAAGGTAGTAATTCCTTTCCCCCAAAAAGGTTTTAAAATCTGTGTTGGA CATAATGTTTGAATTTGCAGTTCACCTTGGJ/GJTTAAGGTGCTGTTTTTCTGGCAAGAGTCAG TGGGAGTGTCCGGGAAAAGGGCTAAAGTCTTTGTAGTCAGACAAACCGGCTTGCAGTCTGACTGAG CTACATTCACTTTATGATCTCCAGCAGGTCTTCCA
WI-1780	31 A G ---	---		GGTACACAAAGAAATGCTTCTGGAAATCTACJ/GJTAGGCGCTTAACATTTTGGCTGAGTATTATC TGACATGTGTAAATGTGAACCCACCATGAAGCTGGGCAAGAAACAAATTCCTAGGAAAGTACAATTAC TGGGAACTGTAGAACAATAATCTCATAGTTTACACATAGCTGGGAATCACTCATGTTCCCATCA ACTGGAGAGACCTTGTGAGTACAGAGGACATTCAGAATAATCATAAAAAT
WI-1803c	77 A G ---	---		CCACTCAGTAATAATAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTTTTCAGGCAGAA CCATTATGATJ/GJAGTAGGTAGAGCATCACACTTGGGAGGACATATTCCTGGAGTNAGATATCCTG GGTGCTAAATTTCAAATATATCTACTAAAGCAGTCTCTAGAAAATCTTACTTACTCTTGTCTCTCAA GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAAATACTGGAATCA

WI-1803b	77	A G	---	---	---	CCACTCAGTAATAAGTGTGGAGATAAGTATATGGTAGGCACATAATAATTTTCAGGCAGAA CCATTATGATAGTAGGAGGATAGAGCATCACACTGGGAGGACATATCTGGAGNAGATATCCTG GGTGCTAATTTCAAAATAIATCTACTAAAGCATGACTCTAGAAAATTACTTATTACTCTTGCTCTCAA GGAAATGGGAATACCTATAATACAGTCTTATTGAGGAAAATACTGGAATCA
WI-1837b	112	C T	---	---	---	TTTACTGGGATTTTTCATAGCTGATCATAATTTACCAITTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATACIC/TJCTGTCCCGAGTTATTTTT AAGGTTTTTTTTCATTGCACTGATGCCAAAACAAACCTCAAAGACCTTGAGTGAATTTTGAGCT CGTGAACAACCTGGGAAGTCTGGGAACGTTTAGCTTTCTGCTGGCT
WI-1837	112	C T	---	---	---	TTTACTGGGATTTTTCATAGCTGATCATAATTTACCAITTTGATAATTCACCTCTTTTCCAGGCTCA AGGCTGATAAGCAGTTATCCAGATAGAAATAGACCCGTTTATACIC/TJCTGTCCCGAGTTATTTTT AAGGTTTTTTTTCATTGCACTGATGCCAAAACAAACCTCAAAGACCTTGAGTGAATTTTGAGCT CGTGAACAACCTGGGAAGTCTGGGAACGTTTAGCTTTCTGCTGGCT
WI-1840b	79	G T	---	---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACTG/TJGAGAACTCTGAATATTGAGACATACAAAGTGTGACACCACTTGTTTAGTAT ATTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCCTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1840	79	G T	---	---	---	TCACCTAGGGAGGTCGCTAAAAATGTAGCTTCATTAAAGACACCTCAGACCTATTGGATCAGGATCTT TCAGGTAGCACTG/TJGAGAACTCTGAATATTGAGACATACAAAGTGTGACACCACTTGTTTAGTAT ATTTATCTCCAGAGTGTTTTGAATTTACTAAAAAGTTCCTAAAGAGCCATGAAGAAATTATAAGACT ATCGCA
WI-1879b	110	C T	---	---	---	GGGCTCACTTTTCATCAGAGCACATATCACGTGATAGTCTGTTTCCTTTTCATAACTACTCCCCCG CACTGTAGGNTTTCTTTGAGGTNAAGGACCTGCCNTTTTA/C/TJGCTGCNAAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTAAATAGTCTTGTTGAATGAATTTCTGTGCGCACCTGTGCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
WI-1879	110	C T	---	---	---	GGGCTCACTTTTCATCAGAGCACATATCACGTGATAGTCTGTTTCCTTTTCATAACTACTCCCCCG CACTGTAGGNTTTCTTTGAGGTNAAGGACCTGCCNTTTTA/C/TJGCTGCNAAATAAACTCCCAAAA AAGTGGTTAGTCCACAGGGTTTAAATAGTCTTGTTGAATGAATTTCTGTGCGCACCTGTGCTTCT CAAGAAAAAAAACATTGAAAAATCTCCACAGAGCCCTTTACCCACT
WI-1900b	119	C T	---	---	---	TGTTCTGTGGTCCAGGACCGGGCTAAGTCTTGCTGCATAATGGAATAATCAACTGGACAACCCNG CTNAGGTAGNTACCTNGGCAATTAGCCCCATCTTACAGCTGCAAAAGAGG/C/TJGCTCTGAGAGGT AAAGTGCCTGCCCAACGGCAGCAACTAGAGAGCAGCAACAGGTGTTTGAACCCAGCTCTGCCT GACTTCAGATCTGTGTGCTTAAGTCCATGAGAAACCACTTTCTTGTCTC

WI-1900	119 C T ---	---	---	TGTTCTCTGGTCCAGGACCGGGCTAAGTCTTGCTGCATAATGAATAATCAACTGGACAACCCCNCG CTNAGGTAGNTACCTNGGCAATTAGCCCCATCTACAGCTGCAAAAGAGG[C/T]GCTCTGAGAGGT AAAGTCCCTGCCCAACGGCACTAGAGAGCAGCCAAACAGGTGTTGAACCCAGCTCTGCCT GACTCAGATCTGTGTGCTTAAGTCCCATGAGAAACCACTTTCTTGCTCC
WI-1943c	165 C T ---	---	---	ATTCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCCAATGGTAGGGAAGAACCCAGCC[C/T]CTCTGAANCTGGGTCCACCGTGGAGATAGTGAA TACAGGGCACCCGNTGAGCATTCCAGATGACTCCAAAGCCCGCTGGAGTAT
WI-1943b	165 C T ---	---	---	ATTCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCCAATGGTAGGGAAGAACCCAGCC[C/T]CTCTGAANCTGGGTCCACCGTGGAGATAGTGAA TACAGGGCACCCGNTGAGCATTCCAGATGACTCCAAAGCCCGCTGGAGTAT
WI-1943	164 C T ---	---	---	ATTCAGTTTCACAGTGGGCACAGGAGTCAGATTAGGGCTAAGTTGGGGGACAGGATGCACAGCGT GTTGGCTCAGGATCTCTGGAGGTGGCACCTGTGACCTGGCTAANCATGCTACTTTTCAGAGTCAAGC AGCAAGCCCAATGGTAGGGAAGAACCCAGCC[C/T]CTCTGAANCTGGGTCCACCGTGGAGATAGTGAA TACAGGGCACCCGNTGAGCATTCCAGATGACTCCAAAGCCCGCTGGAGTAT
WI-1960c	270 A T ---	---	---	CCAGGTGAGGCTGAAAGAGGAAGGAGGCAATTGCTGTGGAGTGAGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAAGTGTGCCATGCANGTCTGCTGGTTGTGAGCTCATNGCTGAG TTATCAGAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAAACTTAAAAATGCACCTCCCAACTTT
WI-1960b	270 A T ---	---	---	CCAGGTGAGGCTGAAAGAGGAAGGAGGCAATTGCTGTGGAGTGAGGATTCTGGAGAAGCACCCCT GCAGAGCTTCATTCTGTTTCAAAAGTGTGCCATGCANGTCTGCTGGTTGTGAGCTCATNGCTGAG TTATCAGAGCTCCTGATGACAGATCATGAAAAATAGGTACTTCCCAAGCTCTGACTAGACCTTGGCA GTTGCAATTAAATCCGTGGTGTCTGAAAAACTTAAAAATGCACCTCCCAACTTT
WI-1977	203 T C ---	---	---	CTGATGCCAAGTGCAGCTTAGAGTNAGGAATCCAGAGAAAGTNTTGGATCTGTAAGTAGGAGTCA TTCTGGGCATTTCTCATAGAGTNTGTTTTTAGTCTCGTAATAATACTGTTGCCCTAGGAAGGTGTT TTCTCTACTGCGTCTGTGAAAGCCTTTCCCATCGAGTGATACAGTACTTCCAGTTATGGAGATTTT /C/TAAACAATCAACACTGGCTGAGGCTGTGG
WI-2012	102 T C ---	---	---	AAATTCAGAGCCAGAGTCAGCTCACGATTTATAAGTTGAAGTAAATGCATTGTAGTTTCATGT TTTCTCTTAATCTGCACAAACTAGCTAAAAATC[T/C]TTTAAATCAGTTACCAGAGGCAATACCT GGGTTAATGTAAAGCACCAAAAGTTATGTAGAGTAGCTGTCTCTGAGTCACATTTTTTCTACTCTCAT GGCTTCAACCAATGCTTCCACTGGATC

WI-2013	127 C T ---	---	---	CTTTAGAGGGTGTCATTTCCGTTCCCTTCTGGAAAGTGATTCGTTTAAAGAAAAATAGATGCAACG TTGCTAAGTAGACCTAACATTTAAACAGTCTCCAGCAGATAAATGCTGATACTGACACTTC/TCTCA CCAGAAAAAGAGAAATACCCATCATGAGGAAGAGAAATGACITTTTGTTCAGTTATGCTCCCGGGTCC CCTTTCACTGGAGGATATCTCAGCTTCTGAGCCCCCTGGTTACTGCAATCC
WI-2032c	166 G A ---	---	---	ACCAGACATCCCATCAGGAGTATGCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTTCTTNACTTACTATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATCACCCAACTGGTTTTCTAGATGTACACGATGTGGGACCTCTGTCTCAACCTCCGACTTTCACAG AGATCATTTGGTTAGGCTCACCTTCCCTGTAATTGCTTCTGTTTTTCAAAAGGG
WI-2032b	219 C G ---	---	---	ACCAGACATCCCATCAGGAGTATGCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTTCTTNACTTACTATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATCACCCAACTGGTTTTCTAGATGTACACGATGTGGGACCTCTGTCTCAACCTCCGACTTTCACAG TCATTGGTTAGGCTCA/C/G/CTTCTGTAATTGCTTCTGTTTTTCAAAAGGG
WI-2032	219 C G ---	---	---	ACCAGACATCCCATCAGGAGTATGCTTCTGGCAAGCCAGCCCTGCCCTTCTGATTTCCCAAAAACC TCAATTTTTCTTNACTTACTATAATATTGCTAGGATATCCACATAACCAAAAGCCAAACCTAACC ACATCACCCAACTGGTTTTCTAGATGTACACGATGTGGGACCTCTGTCTCAACCTCCGACTTTCACAG TCATTGGTTAGGCTCA/C/G/CTTCTGTAATTGCTTCTGTTTTTCAAAAGGG
WI-2054b	188 C T ---	---	---	CGTTTCTTCTACATCTTGGGNACATAAAGANGAAGAGNAGCTGCTTTTTTGTGGTAGTTTGTCT CAGAGCTGCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCT/C/G/TTCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTTACTGGATGGGCTGCTTT
WI-2054	183 T C ---	---	---	CGTTTCTTCTACATCTTGGGNACATAAAGANGAAGAGNAGCTGCTTTTTTGTGGTAGTTTGTCT CAGAGCTGCCTAGAGCNAGGACAAGACAGGTGACCTTTCAAATACCTTACAGACTTAGGATTTGGA TTTTCATGGTGGTTGGCACAGCCAGGCTCAACAGAACTAATACCTGCT/C/G/TTCTGCCTCCAC CAGCCCTATCTCTTAGGCTCAAGGAGAAATTTTACTGGATGGGCTGCTTT
WI-2573d	129 T C ---	---	---	TGGGATTAACCCCTGTTTCTTCTTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTTCCGTTTCAAGGTGTTTCCGTGCTTT/C/JTGA TATCATCTGATCTTCCCAACCCAGGGCTTATTTATGCCTAGGTAAAGGGTAAGCAACAGAGGCTGTGT GAAGTAAATGATTGCTTGCACAAGGTCAATGCTGGGCTTGGACGAG
WI-2573c	165 A/C ---	---	---	TGGGATTAACCCCTGTTTCTTCTTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAAAATAGCTCTTAAATGCACCTTCCGTTTCAAGGTGTTTCCGTGCTTTTATAT CATCTGATCTTCCCAACCCAGGGCTTATTT/C/JTGCCTAGGTAAAGGGTAAGCAACAGAGGCTGTG TGAAGTAAATGATTGCTTGCACAAGGTCAATGCTGGGCTTGGACGAG

WI-2573d	129	T C	---	---	TGGGATTAAACCCCTGTTTCTCCCTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTTTAAATGCACCTGCCGTTTCAAGGTTTCCGTCGCTTT[C]TGA TATCATCTGATCTCCCAACCAGGGCTTATTTATGCCTAGGTAGGGTAAGCAACAGAGGCTGTGT GAAGTGAATGATTGCTTGACAAAGTTCATATGGCTGGGCTTGGACGAG
WI-2573c	165	A C	---	---	TGGGATTAAACCCCTGTTTCTCCCTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTTTAAATGCACCTGCCGTTTCAAGGTTTCCGTCGCTTTTGTATAT CATCTGATCTCCCAACCAGGGCTTATTT[C]TGCCTAGGTAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAAGTTCATATGGCTGGGCTTGGACGAG
WI-2573b	165	A C	---	---	TGGGATTAAACCCCTGTTTCTCCCTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTTTAAATGCACCTGCCGTTTCAAGGTTTCCGTCGCTTTTGTATAT CATCTGATCTCCCAACCAGGGCTTATTT[C]TGCCTAGGTAGGGTAAGCAACAGAGGCTGTG TGAAGTGAATGATTGCTTGACAAAGTTCATATGGCTGGGCTTGGACGAG
WI-2573a	129	T C	---	---	TGGGATTAAACCCCTGTTTCTCCCTCCAGTTCAGTGTGCCTTAATGTTTGTGCTAGAAATTAACA TTAACAGCAGTAAATAAGCTTTAAATGCACCTGCCGTTTCAAGGTTTCCGTCGCTTT[C]TGA TATCATCTGATCTCCCAACCAGGGCTTATTTATGCCTAGGTAGGGTAAGCAACAGAGGCTGTGT GAAGTGAATGATTGCTTGACAAAGTTCATATGGCTGGGCTTGGACGAG
WI-2868b	60	A G	---	---	GACTTCATGCTCATGAACAAGCATTTGCTCTTAATTACAGACATTAAAGCAAGCTTCC[A/G]CTC CCACTTCCCTCCCACTATCACTCAACCTCTTCATCCACTTTAAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCCACTACTCTATTAACGCTTTCCCAATGATGCAGCCCACTCTGCATACAGTTTGT CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
WI-2868	60	A G	---	---	GACTTCATGCTCATGAACAAGCATTTGCTCTTAATTACAGACATTAAAGCAAGCTTCC[A/G]CTC CCACTTCCCTCCCACTATCACTCAACCTCTTCATCCACTTTAAAGAGGTTTCTTAGGTCCTCTGCAT ATCATGGAAGCCCACTACTCTATTAACGCTTTCCCAATGATGCAGCCCACTCTGCATACAGTTTGT CAGAAATGCTATATTTATGGAACAGCTGAAAAATGAAATATCGATATAC
WI-2870b	131	T C	---	---	CATGCTGTGTAACCTCTGTGCTGCTGTCGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAAATGACTGGATAATGA[T/C] AGAAATGAATAGAGCCCCCATTTTAAATTATATACAGCTTTATGTCCTCCTCTCTGTCCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT
WI-2870	131	T C	---	---	CATGCTGTGTAACCTCTGTGCTGCTGTCGGGAAATTAGAGCAAGGAATTGTATAATCCTAGGC TTCAAGGAGCTTCTCATCTCATTTGAGGAGACAAGATGAACATCAGGAAATGACTGGATAATGA[T/C] AGAAATGAATAGAGCCCCCATTTTAAATTATATACAGCTTTATGTCCTCCTCTCTGTCCTGCCATCAC TGGGCTTTTACAAAGGAGGCTTT

WI-2954c	49	T A ---	---	TTAGCACACATATCTGTTGTGGGACTTAAC TGAGACAAGGCATATAAAAAT/AJAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTCATTAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTGCGACAAATAAGTCCA GAG
WI-2954b	41	A G ---	---	TTAGCACACATATCTGTTGTGGGACTTAAC TGAGACAAGGC/AJTAATAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTCATTAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTGCGACAAATAAGTCCA GAG
WI-2954a	38	G T ---	---	TTAGCACACATATCTGTTGTGGGACTTAAC TGAGACAAG/GJGCATAAAAAATCAGCACCTGGGGCA CAGAGGGAGCTCTATGCATTNAATTCCTCATACCTACCCCTCCTCTCATTCATTAATGAGTCCTTTGAGT CCTTGGAAAGACTCTATTCCTGGGCAACCCCTTGGTCTCTGGCCATCCATTGCGACAAATAAGTCCA GAG
WI-2971b	62	T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTCCAGTTAGACTCACCAGCATTTCTAAGA/T/CJG CTGCCAGCACCAATAAGCTTTCTTTCAAACAATTTGTGAACCTCCTCTCCTTTAATAAACCTAAC ATTTCCCTTTGTCCTCCTGACATTTCTGAAGGCCACGCTGGTCTAGATGTATGCCAGATTGCAATCCT AGTCTTTAATGTATTCTGAAAGAAAACCTTTTACTAGGGATTGIGCT
WI-2971	62	T C ---	---	ATTACAAATCCTACCTAGCAACTGCTGACACTCCAGTTAGACTCACCAGCATTTCTAAGA/T/CJG CTGCCAGCACCAATAAGCTTTCTTTCAAACAATTTGTGAACCTCCTCTCCTTTAATAAACCTAAC ATTTCCCTTTGTCCTCCTGACATTTCTGAAGGCCACGCTGGTCTAGATGTATGCCAGATTGCAATCCT AGTCTTTAATGTATTCTGAAAGAAAACCTTTTACTAGGGATTGIGCT
WI-2995d	133	A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTNA /TAAATCTTTCTTCTGTTGTTTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGT
WI-2995c	151	G C ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTNA AATCTTTCTTCTGTTGTTTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA AATGAGACAGAACTAGCAGAAAGTGT
WI-2995d	133	A T ---	---	TTCTGGGAAAGAAAAGATGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAAGGAAGGAGCTGGANTTTTTTNA /TAAATCTTTCTTCTGTTGTTTAAAGGAAGTTATCTGAAAACCCACTGGTACTCTCCAATGGGTAAA GAATGAGACAGAACTAGCAGAAAGTGT

WI-2995c	151 G C ---			TTCTGGGAAAGAAAGATGGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAGGCTGGANTTTTTTNA AATCTTTCTTTCTGGTG/CJTAAAGGAAGTTATCTGAAACCCTGCTGTTACTCTCCAATGGGTAAAG AATGAGACAGAAGCTAGCAGAAAGTGTT
WI-2995d	133 A T ---			TTCTGGGAAAGAAAGATGGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAGGCTGGANTTTTTTNA /TAAATCTTTCTTTCTGGTGTTAAAGGAAGTTATCTGAAACCCTGCTGTTACTCTCCAATGGGTAAA GAATGAGACAGAAGCTAGCAGAAAGTGTT
WI-2995c	151 G C ---			TTCTGGGAAAGAAAGATGGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAGGCTGGANTTTTTTNA AATCTTTCTTTCTGGTG/CJTAAAGGAAGTTATCTGAAACCCTGCTGTTACTCTCCAATGGGTAAAG AATGAGACAGAAGCTAGCAGAAAGTGTT
WI-2995b	151 G C ---			TTCTGGGAAAGAAAGATGGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAGGCTGGANTTTTTTNA AATCTTTCTTTCTGGTG/CJTAAAGGAAGTTATCTGAAACCCTGCTGTTACTCTCCAATGGGTAAAG AATGAGACAGAAGCTAGCAGAAAGTGTT
WI-2995a	133 A T ---			TTCTGGGAAAGAAAGATGGGGGTTTTNTTGTCTCTGACTACAATCCAGAGATAACATCTTTGCC TCCAGTTTTNATCAAGATAAAGACCTGGAAGACCCGAGCCAAAGGAGGCTGGANTTTTTTNA /TAAATCTTTCTTTCTGGTGTTAAAGGAAGTTATCTGAAACCCTGCTGTTACTCTCCAATGGGTAAA GAATGAGACAGAAGCTAGCAGAAAGTGTT
WI-3147	85 C T ---			GTGGTGAGTTTCATCCTCTGGAGCTCCCTGTGAGATCAGACTGGAGCCAGTCTCCAGTTGAGACCAC ATCTCAGTTAGCTCCTTTC/CCTGGCATAATCCTGTTTCCCTACTCCTATCCTGAGACTTCTTCCCT GAATGAATTACATGCACCTCAATCCCTGCCTCAGTCTCTGCTTNNAGGGAACCTTGACCTAAGACAGAA ATCTAGTACCAAATACCTTGCAAGG
WI-3234b	68 T C ---			ATTCTGTAATGTTTTCACTGCTCCAGTAAATTCITTTATTGAGGTCCATGTCCTACCTCTACTTA T/CIGACAAGCAAGAAACAACAAGAACCTCTGTTTGCAATCTGGCCTCTTATAAATACCTTCTG TATATTTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAATAAGCATATCAAAAATTTTAC TCAGTAATTCAGAAAGAAAGGACAATGGAATGACTTATTTTNNATATCTTAT
WI-3234	68 T C ---			ATTCTGTAATGTTTTCACTGCTCCAGTAAATTCITTTATTGAGGTCCATGTCCTACCTCTACTTA T/CIGACAAGCAAGAAACAACAAGAACCTCTGTTTGCAATCTGGCCTCTTATAAATACCTTCTG TATATTTTAAACAAGTACTGTAGAGTNATGAATCATACATCCTTAATAAGCATATCAAAAATTTTAC TCAGTAATTCAGAAAGAAAGGACAATGGAATGACTTATTTTNNATATCTTAT

WI-3292b	106	G A ---	---		GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACATCC TCCCTGCCCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]TGGTATGGATGGGATGGAATTA GCCATGAATATTTTCCATTGTTTCTCATTAAATGATTAATAATTAAGTAAATATATTNNCCATGA GACACAATGGAAAAATGGAAAAACATTCATGGAAAAAACCCATTCAATC
WI-3292	106	G A ---	---		GTTTGTAGACTAGGAGTTTCAGCTTCATCCAAATCCCTTTAAGGATANTTAGCTCTGCACATCC TCCCTGCCCCCGTCCCAAGCCTATGTTACTGGTATGCT[G/A]TGGTATGGATGGGATGGAATTA GCCATGAATATTTTCCATTGTTTCTCATTAAATGATTAATAATTAAGTAAATATATTNNCCATGA GACACAATGGAAAAATGGAAAAACATTCATGGAAAAAACCCATTCAATC
WI-3355	19	G C ---	---		CCATGAACCATGGGCTAC[G/C]ATATTCCTAACTTCAGAGTCCCTCTACTGGAGGGATCCA CTTTTAAATATGATTTCTTGAAGTGGCTGCATACTATTCTTCCAGCACTTAAACTCATCAGAA AAAAAATCATCAAAAAAGTCGAAGTTAGTTTNNATTACCTTCACCTTTTCAATGGAAAACTTTATAA ACTGTGGATCAATTTATATTACTTTTGGATCAGTTTAGATGACTTTNAGTTG
WI-3408	194	G A ---	---		CCATGAAGATGAGTTCCTCCCTCCCTGGGTCAGCTAAGAATAGCACACCCCTTGAGAAATTTNACT TAGCACGTGGCATTGTAATGGCTGGATTTCTCCGCTCTAAGACACACCTTTATGCTTTCNAAGCTTT CTGGAATGGGATGAATCTNACATTCATGTGCACCTTCGTGGGATCATTCTCC[G/A]TGCCCC ATCTCGNAGAAGCCACTGGGAAGTCGAAGGAGTGACTTCAATCAGG
WI-3505b	131	G A ---	---		TAACTTATGCCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACTTAAAAATTTATTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCTTATGGGAAAAATATATACAGCAAGAAAAAANANNGAAAAAATGTTGATGATACCT GTTTAAATGGGAAATATGTTGCATAT
WI-3505	131	G A ---	---		TAACTTATGCCCTCATCTGGCTTACTGCTTAGTTCCCATTTGTCATCAGTGCACTTAAAAATTTATTT GAAAAATTGCCATTTTAAATATCTTTGGAACCTTCTTAACACATTACCTATTTTNAACCAAAC[G/A] AGGTGATTCTTATGGGAAAAATATATACAGCAAGAAAAAANANNGAAAAAATGTTGATGATACCT GTTTAAATGGGAAATATGTTGCATAT
WI-3564b	177	C T ---	---		GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGAGTCACATAATGTTTGAGAAATAAAAGT GAAAAATCAATGTGTCTTCCAGTGATTCACATGGCACAGTGCACAGAGGGCTTGAGCGTCTGAGCG TGGGACTTCACCTGTTGACTAACGTTAACATGCATGCTGTTC[π]AACAAGTGTGTTGTTGTTGTCATC AGTGTCACACATGCTACCTTCTTCACAAAAACAA
WI-3564	177	C T ---	---		GCTAGTAAGGTTCCACCTAAATGGTTCCAAAGTCAGGAGAGTCACATAATGTTTGAGAAATAAAAGT GAAAAATCAATGTGTCTTCCAGTGATTCACATGGCACAGTGCACAGAGGGCTTGAGCGTCTGAGCG TGGGACTTCACCTGTTGACTAACGTTAACATGCATGCTGTTC[π]AACAAGTGTGTTGTTGTTGTCATC AGTGTCACACATGCTACCTTCTTCACAAAAACAA

WI-3649	64 A	---	AATGTCATGCTGTGACTGACCTGTCTAACACCTTTCTCTAGTATTCTCTTAGTGGAGATTCAAC[AG] AGACCAGTTTGCCTTCACTTAGTAGGGCCAATGATAGACTTTTAGTGCTACCAAGGTTACCTGC ACAGCCACATCATATGTCACAGTATGTTGCAAGGACCTGTCTAGACTCTTCTGCCTGCCCTTGGTC TTCTGTTTTACCATATTAAATGATGACATGCAAACTCAGAGCCCTTTTA
WI-3674b	133 G	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTGCTTTTATAGTAATTAATAATGTTTATTTAGAAAATAACAAAATG /CJAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTNNATTACTGCCAATCAGAGCCAAAG
WI-3674	133 G	---	ACAGTACACATGGCCCCATTATGGAACAATCATCTGACTTATGTTACCTGAGAAGTCCCTCTCTAA ATTTAACTACCAGGGGAGTGCTTTTATAGTAATTAATAATGTTTATTTAGAAAATAACAAAATG /CJAGAAAAAATGATAGTCAAGTTGTAGACACTATTTAAAAATTGTAACCTGGTCAAAATGATTGTT AATCTTAATTAATTGTTTTATGTTTNNATTACTGCCAATCAGAGCCAAAG
WI-3682	137 G	---	CAATATAGACCAAATGACTGCCACAAGAGAAAATTAGTGGATCTACATTTAGAAAACCCACATGTTTT ATTGGCTCTCTCTTCTCTCTCTCTTTTAAATGCTCTCCAAACCAATTCACTTTATTCTTTTCAA T[G/A]AGCATTTGTCCAAATTTAAAGTCAATGAAAAAATAATGTACATTTTCAACAAGTATACATTAA GCCCTGCAAAAGTCTTATATGCTAT
WI-3854b	194 G	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTGCCCTTGGGA CAAAGACCAAGGACAACCTGAGGACTTCTGCATGGTCTACCTCACCTTAGGCTTCTTGATTAATAACTC TGTTTCAGGAAGGCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAATGGTTATAACAGAGTCAGAGCCA
WI-3854	194 G	---	GGTATGTTGAGGTCAGCTAATGGTCACTGTGGTTGGAGTGAATCTAAATGGATTTTTGCCCTTGGGA CAAAGACCAAGGACAACCTGAGGACTTCTGCATGGTCTACCTCACCTTAGGCTTCTTGATTAATAACTC TGTTTCAGGAAGGCAAGGGCAGTTATGACCACCTTACAACCTGAGGAAATCAAAGCAAC[G/A]AGAA GTTAAATGGCCTGTCCCACTCCACAGAAATGGTTATAACAGAGTCAGAGCCA
WI-4039	210 G	---	AGCCAGCCACATCATGTTGAGTCTGCTCATCTCCCATCTCTTATTTCTCTACTGCCTTCACCTT CCATTAAACAAGAACTCTTGATTACATGATGTTTGTTGGTTACACTACAGAATCCAAGATGACCTC CCCATCTCAAGGTCAACTAATTAACACCTTAATCTATTGCAATCTTTGTCATTACCATAAACATATT CATGG[G/A]TTCTGGGATAAGGGGTAGACATTTTTATGGGAGGCCATTA
WI-4110b	130 T	---	GAAAAATGATGTTTTGATTTCCCTTCCCTATCTTCAGATTATTGGAGTGCTATTAGAAAACTGATAGT AACCTTTTATTTGATGAAACTCTGTCTATAATTAACCTTCTCTCTCTCTTTATTTTGGCTT[C/J]ACA GTTTAGGTAATAAAAGATGCCAAGAAATTCAGTATTCAGGTACAGTAAAAAGTAGCAACCATGGG GTAGGGACAAGTNCAGAAAAAGGGAGGAGGTTGGGGTTTTCTGGGAAGA

WI-4110	130 T C ---	---	GAAAAATGATGTTTGTGATTTCCCTCCTATCTTCAGATTATGGAGTGTCAATAGAAAACTGATAGTAACTTTTATTTGATGAACTGTGTCTATAATTAACCTTCCTCTCTCTGCTTTATTTTGCCTTC/JACA GTTAGGTAAATAAAGATGCCCAAGAATTCAGTATTCAGTACAGTAAAAAGTAGCAACCATGGG GTAGGACAAGTNCAGAAAAAGGAGGAGGTTGGGGGTTTTCTGGGAAGA
WI-4119b	168 G A ---	---	ACCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGGCTTGGTGGGAAAAAGTAATAATAG AATGGAAGGATAAATAAAGGTAACTACGGGGAAGAACAGGACAAGAACAGACAGAGAAGGGGTT AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAA[G/A]CAAGGTACCAAATTTGTTTTCTTTCA TGAGACCGTCTGCATCTTTTGTTTTTTAAAGGGCTCTGTGATCATCATCTTCA
WI-4119	168 G A ---	---	ACCTCTATGCCTGAAAGCCCTCATGAGTGTCCAGCAAGGGCTTGGTGGGAAAAAGTAATAATAG AATGGAAGGATAAATAAAGGTAACTACGGGGAAGAACAGGACAAGAACAGACAGAGAAGGGGTT AGAGGAAGGAATCAGTTGTGTGCCATTCAAAGTTAA[G/A]CAAGGTACCAAATTTGTTTTCTTTCA TGAGACCGTCTGCATCTTTTGTTTTTTAAAGGGCTCTGTGATCATCATCTTCA
WI-4123b	51 T G ---	---	CAAAGTCAGATTTTGTATTATTCAGGATAACAATTTTGAAAAATAGAAAAAGTG[T/G]TTTAAACTATTT CAAATAACAATAAAGAAAAACATGATGAAATTCCTGTTTACATAATTTGATAGAATTTAGTGGG TTCTCCATGACATTGGCTTGTCTTCTCTCAACAGTGGGTTGGATGTTTTCTATGCTTTCTC AGGCACAAACACAGTGAAGAAACCTTTAGCAACATTTCTGCTGAATGTG
WI-4123	51 T G ---	---	CAAAGTCAGATTTTGTATTATTCAGGATAACAATTTTGAAAAATAGAAAAAGTG[T/G]TTTAAACTATTT CAAATAACAATAAAGAAAAACATGATGAAATTCCTGTTTACATAATTTGATAGAATTTAGTGGG TTCTCCATGACATTGGCTTGTCTTCTCTCAACAGTGGGTTGGATGTTTTCTATGCTTTCTC AGGCACAAACACAGTGAAGAAACCTTTAGCAACATTTCTGCTGAATGTG
WI-4149b	145 G C ---	---	TTGTACATGTTTCATTCATCCCTCCCATCTTTTCTGTCTTATAAAGAACCTCGCTTCTTCTCCAAGT CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTCTCAGCATCTTCTATATACT GTGCTGT[G/C]CCTTGTGAAGAACCCAGAGCCGAGCATACCAACATGATCTTTTGTGTTGAAGTGTAGT AGGAGAGACAAGACAGATGTGGGGTCCCATGATATAAGGTAATTG
WI-4149a	137 T C ---	---	TTGTACATGTTTCATTCATCCCTCCCATCTTTTCTGTCTTATAAAGAACCTCGCTTCTTCTCCAAGT CTTACTTCTCCACCTGAGCCACAGATCTCTTTATTTCCATCAAAGCTTCTCAGCATCTTCTATATACT T/C]GTGCTGTGCCCTTGTGAAGAACCCAGAGCCGAGCATACCAACATGATCTTTTGTGTTGAAGTGTAG TAGGAGAGACAAGACAGATGTGGGGTCCCATGATATAAGGTAATTG
WI-4182	188 G A ---	---	TAACACACTTTTCATTTGGTTTCTTACTGCAGTTAAAGGACCATCCATTATATACAATTCCTC TAAGTTCTATGCTTTAGAGTNCATTTATAGGACTACTGTAATTTTCAAGAGGAATTTACTCCTGGAGTA GGGGAATGAGTTAAATATCTACCACATGCCAATTCAGGGACTGTGGTTAA[G/A]ATGTCCTCTCT TGCCCCCTTCCCAAGTTCTTAAATTCCTAG

WI-4230	93 T	---			AGAGACGTTGAATGGGGACATCTTTTCTATTTTCGATTTAGTTTAAACATTTGATAAGAATTTGATGAAA GTTTGTACATCCAGATTTATCTTTATAGCAGCAGAAGTCTGGCAAATAATAACAGCACACTGACT TTTCCATGGTAAAAAGAGTTAGAGAAAAACAGCCTATTTTCTTAATGTTAAATGTAATTTCTGAAT ACATTTAAATGGAGGAGATGAATAGTGACCTTTGAAATTTTGAATTTATGG
WI-4241	118 C T	---			GAAATTCATTTGAAGTTTGAACCTTGAACCTGATCTCATTAATACCTTTTNCCTGTAGTGGTTGATTT CATTTTGAACAACAGACAGCAAAATTTCCACTTAAATTAATCTC[C/T]AAGTATCTATGAT TTAGCACTGTTAGCACCAAGAACTGTGAAATTTATCTCTAGATATCTTCAGAACTCAGGATGGAAG AA
WI-4271b	151 A	---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAAAATAAGAGCCTCAGG GGACTGAATCCAAACGGGAATATTAGAGTNCCTACAGGAGCCCCCAACCCCTCCCTTGTCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4271	151 A	---			CAGGGCTTTTGGGAAGATCAGTTAAAGCAGANCTGGACCTAAAAAGACTAAGCACATTTTCAGCAT CAACAAAAGGTGACATGTTACCCATGAAGTCCCTGGAGGATTAAGATCAAAATAAGAGCCTCAGG GGACTGAATCCAAACGGGAATATTAGAGTNCCTACAGGAGCCCCCAACCCCTCCCTTGTCTCAGG CTCTAGAAGGTCCAGTCAGGGGC
WI-4389b	156 G A	---			AATCGAAACATTGATTTTTTTGTAAAGGAACACATTTATGATATTTTGCCCCAGTTTAGCATAT GAAATTTGAAGGGATGAACCTGGAGGAAGAGAGATAGAAAGGATATTATGTCATAACCTTTTGA AGGTAAGATGTGAACCTATACA[G/A]TNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACTGGAAGCGGTAA
WI-4389	156 G A	---			AATCGAAACATTGATTTTTTTGTAAAGGAACACATTTATGATATTTTGCCCCAGTTTAGCATAT GAAATTTGAAGGGATGAACCTGGAGGAAGAGAGATAGAAAGGATATTATGTCATAACCTTTTGA AGGTAAGATGTGAACCTATACA[G/A]TNGCAAGGAAAGTAGAAATGGAACAGACATGATTGACTTA AGAGGTATTGTAGGAACTGGAAGCGGTAA
WI-4488	31 A G	---			GATGACAATTATTGTGATTGGCATTTTAAA[G/G]TACCATTCCATTTTCTCTGGCTTTCGTGTT TGTTGTTGAGAAGTCAGGGGTAGTCGTATTGCTCTTTTCTAGTCTTCTCAGTAGGAAGACTGATC CTAAACAACTAATTACCCATGCCAAAGTACGTCCAAACTGATCTTTAAAGAACATAAATCAAATTG TATTATCCTATGCTTAAATGCTCAG
WI-4491	145 G C	---			ACCATCAATGTATCACCTTCTAAAAATTTATTAGATGATTAACTGGCTCTGTTAAAAAATAAAAAACCT GTCCTGGACATTGAAAAATAAACATTAATACTATTGGTCATTTTCTGCTACTTACAAAGGTACTGCACTA AACAAAGTTAAG[G/C]GTTTTTTGGAGGGGAAAAATCATAAAAATGCATAAAATTTCTACCACTGICA TTTTCTGTCCCATAAATAAAATTTTACATGCCT

WI-4584	144	A G ---	---	TTGGTGGCATTAGCCTCATAACAACTATTACAATCATATTTACTCTTATTTACAAACAAG AAAAATGAGGCTTAACATCACACTCTGCTTAGTCGCAGAGCCAAAGATTTGAACCCAGGAATCCATT CACCGGTACAGJTGCTACCTGGTAAAAAATGTTTAAATTAATAATCTATGGCATTAGATTTCAAAGA GTCTAATGTGGTTTGAATAAGGTGCTTTAATTTGTTTATCAGTATGC
WI-4639	185	C T ---	---	TTTCTGCATTTGAATGTGTATGGTCAGACTTCAGAGGAACCCAGGAATCTCATTTATTCAGTACAATA TGGTGGCCAGGTGCTCAGGCCCTATTATCAGAGAGATCTCAGTTTAACTTCCAAATCCACCAATTTAC TGACCATATGACTTGGGGAACATTATCTCACCTATCTGAGTCTGTATCC[CT]CACTCTTTAAATTTGTA AATTTAAGGACACCTATCATAGTAATAATTGTGAGGATAAATGAAATAA
WI-5327	63	A ---	---	AAATGAATCCGCTTTAGAGCAATACCAGTAAGGGCTGGTGAGGATGGTGGCTGAGAGA[A/- JGATTAATCATAAAAGCATATTAATTTTATAAATATGAAAAATTTAACTAGATAAATTAATGTAAT TGAGTTTGAAGTTGCATGAGAGTAGGAGGAGGAGGTAGTTTCTACTTATAGGGTTTATATAAGTNTGCT TCAATAGAATGGCTCTTTCCGATGACAATGATGAATGTTCTAAAGCAGACAG
WI-5390	87	C T ---	---	GCCTTTGAGAAATGAAAAAGGGGAGCCTGGACCAATTCAGAGGCTTCTCATCTCTGATATTTTGTGTAT TTATTGTTCACTTATTTAT[CT]GTCTGTCTCCCTTCTGGTATGCTTGTGTCATGAAACAATGAATTC CCAGTGCCTGGCCGATTCGTGGCTCTAGAGGTGTCAGAAAAAAGTTTCCGTGAATAGAAATTG ACGAATGGTTTCAGAAATGAAACCTGTGAATCTATGGAAGACAAACGAAT
WI-5404b	87	G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCTCTCAAGAAATCAATTTAAGCAGT GCAACATTATTTAATTT[G/A]AAAGAAACCTGTTTCTGAAACTTTGTACTCTTTGTAGTAAATTTG AATCTTCTCTCAGCAGTTCCATGGTCGTGAATCCACCCCATCTCTTTTACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTATAGAGTTCAACAA
WI-5404	87	G A ---	---	CCTTGCCTGCTTTATGCATAATGAGAAATAGAGTTGACTCTCTCTCAAGAAATCAATTTAAGCAGT GCAACATTATTTAATTT[G/A]AAAGAAACCTGTTTCTGAAACTTTGTACTCTTTGTAGTAAATTTG AATCTTCTCTCAGCAGTTCCATGGTCGTGAATCCACCCCATCTCTTTTACCAGTAGCAAGATT GCTACTTATATGGAAGGGTTTATAGAGTTCAACAA
WI-5545b	77	A C ---	---	TAGGAAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATCTTACCACCTCACACTGCCGCCA TATCTCCTC[A/C]CCCAACACCTCTGTTTCTGACAGCCAAAGTTCCATCAGTTGATGAGGACTATTT GTTGCAAAACAAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACTCCAAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA
WI-5545	77	A C ---	---	TAGGAAAGGGGATGGTGATGGCCTCTGAGACATTTAAATCTATCTTACCACCTCACACTGCCGCCA TATCTCCTC[A/C]CCCAACACCTCTGTTTCTGACAGCCAAAGTTCCATCAGTTGATGAGGACTATTT GTTGCAAAACAAATTTGTTAAAGATTGGCTGACTTTGGCTGAATTTGCTACAACTCCAAAAAAGANTC GAGATACACCATGAATTTTATTTTCATTCA

WI-5860b	134 A G ---	---	---	ACTCAAGTTGGGGATAAAATCAGAAAGTTTCTATGTACAACTTAAATTTTGCTAAGATTTTATTGTTTCTTTTATATAAATATGGATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTAC[AV GJTTACTGGAATCATGTGAAGACATTTCTAAAGGGTACCCAGGTGCACATAGTTTTAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-5860	134 A G ---	---	---	ACTCAAGTTGGGGATAAAATCAGAAAGTTTCTATGTACAACTTAAATTTTGCTAAGATTTTATTGTTTCTTTTATATAAATATGGATTTGTTTACTTCCCTAACCAACCTTCTAACTGAGGAACCTAC[AV GJTTACTGGAATCATGTGAAGACATTTCTAAAGGGTACCCAGGTGCACATAGTTTTAAGGGAATCA ATTTCCAAATCATCAACTTCTGTAT
WI-6106	208 C G ---	---	---	GCAACAACCTATTATACCTGATTCCAAACCCAGGTCTACTAACATTAAATCAACCCCTAACCAATAC TATATATTGCTCCTGTTCTGAATATTATTTCAATCTAGATCTGATGAGATTTAGCATGGGATAAGTGCAG TGCAGAGATAGTAAACACTGCTCTTTTGGCTTCCAGGAGTCTCAATGTGAAGTATAATTTCTTACAGAG TAATTC[CG]ATAGTAGGTCAACCAAAAGTCTATATTGTATGTGAAGGAAAAG
WI-6109d	129 T C ---	---	---	AAGATAGACAAACATATGCCAGACCACAAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTTCTCTGGACTATAAGGAGATCAGGTGGAATAAACGGAAGGAAAAAACCTTC[AAACCCCTATATTNCTGCTTGTGCATACCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATGT GNAAAATTATCCCCTGAAAAATTTTATACCA
WI-6109c	147 T C ---	---	---	AAGATAGACAAACATATGCCAGACCACAAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTTCTCTGGACTATAAGGAGATCAGGTGGAATAAACGGAAGGAAAAAACCTTAA ACCCTATATTNCTGTC[CTTGTGCATACCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATG TGNAAAATTATCCCCTGAAAAATTTTATACCA
WI-6109b	147 T C ---	---	---	AAGATAGACAAACATATGCCAGACCACAAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTTCTCTGGACTATAAGGAGATCAGGTGGAATAAACGGAAGGAAAAAACCTTAA ACCCTATATTNCTGTC[CTTGTGCATACCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATG TGNAAAATTATCCCCTGAAAAATTTTATACCA
WI-6109a	129 T C ---	---	---	AAGATAGACAAACATATGCCAGACCACAAACAAACACAGACCTGTCTATTTCTGAGAGAAATGTAC ATTGAGTCTTCCCTTCTCTGGACTATAAGGAGATCAGGTGGAATAAACGGAAGGAAAAAACCTTC[AAACCCCTATATTNCTGCTTGTGCATACCTTTAAATGTATAATGTGGGAGAGAAAGGAATTTTGATGT GNAAAATTATCCCCTGAAAAATTTTATACCA
WI-6112	96 T C ---	---	---	AATGCCTATCACCTTCCATCATGCTGCATACTGATTGATTCATAATGCTTATTGTTAGCACCTGTC TTCCAACACATGCTGTTTTGTTCAATGATTC[GCATATCCCAAGTGCCTTAGACAATGCCTCCCATAC AGTGAACAGTATTTGACTAAACATACCTTGTAAATCAATAAAATTAATCAACTTGGCATATGCAGG GAAC

WI-6244	103	T C	---	---	TAATTGCACAACCTACATATCAGGGTTTCTGATTGAAGGAAGAGAAATATTCCTTTCTTTAGTGATT GCTTAATATTAATTCAATAAGTGCACCATCTCTT/CJGCTCCTTATAAATGTGTTTAGAAGAAGG AAATTGAGTGTGGGAATTAAGCAACCAGGAGACATTTTATATACTCCTACAGTGGGGAAGACTT CCTATTTCTTTCCCAAGGATGATACATTTCTAC
WI-6268	124	C T	---	---	CTGGCCTTATAATCCAAGTTTAGGATTAACTTACCCCAACTTAATAGACTTCCAGACAGTTGCAGTT GTCTACAAGATTTCTCCTAGTAGGGCTTTGGGTGTGGCACCCTTTGGCTCATTC/C/PIACTCTCCCT GGGTCTATTGACTTTCAGGGAGCCTAGAAGAGCTGGACAAAACCTGCTTCTTTGCAGAAAGAGTCG GGGTCCAAAGATTTCGTTACGATTTTATA
WI-6336b	234	C T	---	---	AGGTGCCATTTAATCCATTCAAAATTTGGAAGCTACATCTTCAAGGGCTGAGAGAGCTCACTCCCCC ATATATCCCCCTTTACATGTTTCTTATAAGACATACAGTTTAAATCAATTAACAACTAAACAGCTT ATATACGGCAATATATTACAGATGGTTTATGTACAGAGTAATAGATCACATGAAATGGACCATGTG GTACCCAGTGCATTATGCTTGGTAGAGCC/C/TJTGAGGACACTGCACAGT
WI-6336	234	C T	---	---	AGGTGCCATTTAATCCATTCAAAATTTGGAAGCTACATCTTCAAGGGCTGAGAGAGCTCACTCCCCC ATATATCCCCCTTTACATGTTTCTTATAAGACATACAGTTTAAATCAATTAACAACTAAACAGCTT ATATACGGCAATATATTACAGATGGTTTATGTACAGAGTAATAGATCACATGAAATGGACCATGTG GTACCCAGTGCATTATGCTTGGTAGAGCC/C/TJTGAGGACACTGCACAGT
WI-6381	92	C A	---	---	TTGGATACAAAAATTCAGTTACACAATCAGTAGCATTCAAAATTAGTTATGAGTATTTATACAATTA CAAAAATGNNITCATGTTTAAACAA/C/A/GTATTTAAAGCTCAAAACATTTTAAACAGGCACAAT ATTCTAANGGCATATGCATTCACCATGGCTTTTGAATGTCTCTCACTCCCACTTCACAATCAAAATC TACAGANGCGGCAAAAGATCAGAGTTTCAG
WI-6436	198	C G	---	---	GGTTGAGGCATTGGGAAAGGCAGAAATTTAGGCGCAGTAGAAAATGGACATTTTAGGAAAAAGAGAAGT TCAGAGGCAAGTCATGACAGACAGGAAATACAGGCTTAGGAAGACAGTAGTCTCTGTGGTTGAA ATTTGGTGTCAATAAAGAAGTTTAGACTTTGGTGGTGTAGTAGTTGTAGTAGGTTAGCGTT/C/ GIATTGGGTGATTCCACAGACAAGGTGATGTTCTAAGATTGATATTTATTGT
WI-6449	186	C T	---	---	GAGGCCTTTTGGCTTTCCCTCAGTCAAGGCTGTATCCAGGGTTGATCTAGCCATATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTTGGTGTGCTCACACTGCCAGATTGTTAAATATTTTGAATAATC GTATCTGGTCTATTCACTGCAATCTCTGATCTTATGTCTGGCTCTATT/C/PIATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCTCTAATTTTCTGGGTATTATATA
WI-6449	186	C T	---	---	GAGGCCTTTTGGCTTTCCCTCAGTCAAGGCTGTATCCAGGGTTGATCTAGCCATATATGCCATATGT GTATGGCTAGTGTGTTGTTCTGATTGGTTGGTGTGCTCACACTGCCAGATTGTTAAATATTTTGAATAATC GTATCTGGTCTATTCACTGCAATCTCTGATCTTATGTCTGGCTCTATT/C/PIATCCCTATTCTCTGA TCTTATGTCAGACCTGAAGTTCCTCTAATTTTCTGGGTATTATATA

WI-6463	72 T C ---	---	GCTGGAGAGAAAGACCTCCAAAGAGAAACTAAATCAGAGTCTCTTGAGCAAGAGGAATTGAAA AGAACATTC/TGAAAAAATTAAGTAGAACTCAAGAGCCAAAAAGTCCCAATTTGTGCCATTA TAAGAAATATTTGAATGGAAATCTTAAGAATGATTTTATTGATCAGTTAAATGTTCTTCCTCTCCTC CAGTCCCATTTATATGACATCCGCATGCTG
WI-6474b	76 C T ---	---	AAGCAGTAAATCTCCATCATGCCATGGATGCCAGTGGTAAATGTTATAGAACTTCAGAGGANAC AGAGGCAAAC/C/TGTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAGGGGTGACTAGAGGAGAACTATGTAAAGCAG AGGTATAGAGGAACCTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6474	76 C T ---	---	AAGCAGTAAATCTCCATCATGCCATGGATGCCAGTGGTAAATGTTATAGAACTTCAGAGGANAC AGAGGCAAAC/C/TGTTGGTTATAGCAGTCAACGACATCATCAATGAAGACATGACTTGCTTAGAGCC AAGAAAAAGTAGGATTTGAAAGGCACAGAGAAAGGGGTGACTAGAGGAGAACTATGTAAAGCAG AGGTATAGAGGAACCTAAAGTATAAAGAGTGAGCCATAACTTAGGGTACCATAA
WI-6478b	175 T A ---	---	GAACTCAATTAACCTTGCAACACTGAGAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGGAATGCCACGCTTCGAGGCTGTCTATATGCTTTATTTTGTGA CACTGTCTATTTACCTCCCAATAGTGAGAAATCAGAGT/A/GCTCCTTGTGAGTGTGCTACAGA GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACAACCTG
WI-6478	175 T A ---	---	GAACTCAATTAACCTTGCAACACTGAGAAATCGGATTTGGAGATCTGCAAGCTGAGGTTGAGATT TTGGACCTTGGTGATCCAAATGGGGAATGCCACGCTTCGAGGCTGTCTATATGCTTTATTTTGTGA CACTGTCTATTTACCTCCCAATAGTGAGAAATCAGAGT/A/GCTCCTTGTGAGTGTGCTACAGA GAAGATATACAGGATGGAAGGACAGCTCCTCGTAGGACCTAGACACAACCTG
WI-6559	149 G A ---	---	CACATTTGAATGCAACTGAGAAANTGGTTTNTAGGCTACCTTTTATTAAGAGTACATCTGGCTC CAATGTTACCCCAACATGCAAAACATAAGGCAACAATCTGATCATTTTATAGGNTCCCAAGCCCA TTAGCAATATCTTA/G/A/TCAAAATTTTAAAGAGAACAGGAAATAAGGAAGGCCCTAACAGAGGAG TTAAATAATTTGTGCAAAACTTATCAGTTCTTC
WI-6564b	54 G A ---	---	TTCTTTATGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCTATGC/G/A/CACTGGCTTTG TAGGCATTCACATCATATGTCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCCTTTCCAT GCTCTGCCTCATTNCTCAGAAATGAAGGCAATTTGATTATNATTTTGTGTTGGGCTGTGTAAAG GTTCTTGGCAGGAGAACATGCATATGACTTTAAATAAAGACCAACA
WI-6564	54 G A ---	---	TTCTTTATGGTCTACCAATGTGACTCTTTACCCAGGCCCACTGTTCTATGC/G/A/CACTGGCTTTG TAGGCATTCACATCATATGTCTGTGCTGCTGAAATCTCAATTAATTTCTCCTNCCTATTCCTTTCCAT GCTCTGCCTCATTNCTCAGAAATGAAGGCAATTTGATTATNATTTTGTGTTGGGCTGTGTAAAG GTTCTTGGCAGGAGAACATGCATATGACTTTAAATAAAGACCAACA

WI-6608b	46 C	---	---	CTAATCAGTAGCACTGAACATGGCTCTAGTGAGTGGGCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCTCTAGTCTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGTAATTTCTAGAGGAAAAAGAACTCCAGCACACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCAGGCTAGCTACAAGGCCACACAGAAAAAGGAA AGC
WI-6608	46 C	---	---	CTAATCAGTAGCACTGAACATGGCTCTAGTGAGTGGGCTCAGT[C/- JAGTTCAGGCAGCTAAAGGAGGGGATTTCTCTAGTCTCTCCCTAGAGCTAAATATGCATCTGG GAAAAATTAGGCTCTGGAGCACAGAGGTAATTTCTAGAGGAAAAAGAACTCCAGCACACTAG GTAAACTGCAAAAAAGAAAAACACCTGTGCCAGGCTAGCTACAAGGCCACACAGAAAAAGGAA AGC
WI-6666	68 C A	---	---	GTTAGACAGTATCCAGCAAAAAAGGTTATTTATACCTCTACTTTTCCAAAAAGGAAACCTCCCC A/C/AJAAATCCCATCAACACACAGTCATGCTGGAAGGCATTCTGTCTACTCTGTGTGTTTCATGTAA ATGTTGGGGTGACTCATTCCGGCTCTCTNITCTCAAGTTCAGGCTTCTGGGTAGACCAAACTA ATACACAATGTTAGAGCACACAAGAGA
WI-6670b	120 A G	---	---	AGATTAAACATAATTACTGGGGCCATTGTAGGTTNGGAGGAGTGTTTTCTATCTGCAGCCAAA CAGAAATACGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/G]TTGTAGCCA GCATTGCCATTACAGGGCCGAGTCAGGGTTTGTGGGCCAGAAAGTTAGACAATTTGGGGAATCTGA AAAAAAAAGAAATACAGAAATTGTAAACACAGACACAGAATCTTAGAAGGGAT
WI-6670	120 A G	---	---	AGATTAAACATAATTACTGGGGCCATTGTAGGTTNGGAGGAGTGTTTTCTATCTGCAGCCAAA CAGAAATACGTAGTACAGCAAAACCGTCTCAACAGTAAGCACACAATGAAC[A/G]TTGTAGCCA GCATTGCCATTACAGGGCCGAGTCAGGGTTTGTGGGCCAGAAAGTTAGACAATTTGGGGAATCTGA AAAAAAAAGAAATACAGAAATTGTAAACACAGACACAGAATCTTAGAAGGGAT
WI-6704c	33 T C	---	---	TTTGAAAATAAATTCATGCACCAATGTTTTAAC[T/C]CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704b	33 T C	---	---	TTTGAAAATAAATTCATGCACCAATGTTTTAAC[T/C]CACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG
WI-6704	28 T C	---	---	TTTGAAAATAAATTCATGCACCAATGTTTTAAC[T/C]AACCTACATATATCATACAGTGCAGGATTTATGA ACATACATAAAATCAAAATCATACCATATAAACGTTTACAAATAAGTTTTTCATGACACACGGNCA CTATTGCTCTTTAAATATGGTTGACATGTCATCATTAATCGATTCTTCTCCACATGGTTATTT CAATGCAAGANCCGATCAGCATGAAGAGTCTAGTACAAGATAGGCAGACATG

WI-6710	106 G A ---	---	---	CCATGGACAGTTTAATTAGGAAGCTTCGACTTGTAGTAATAACAGAGGAAGTCCAGTTATCTACCT ATTCCCTTAAACACATTTTGTGAGGCTGGAATGATTCCTC[G/A]TAGTAAACCTCAACATCCACACCT GCATAAACATCGCTCCCAAGTGACTATTATTACTGAGTCGACAGGATGTCACCAAGTGAGCCTC ATCTCCAGTCCAATGGAGGAGTTGACTTAGACCTTCCTGGACAGGAAGGGTC
WI-6766b	148 G C ---	---	---	AAACAAATGGTGCTATGCATAATATTGTGGTCACAGTATAAACAAATACAATTAGTTTCATATAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTATCACTGA GAATTTGGTCAACAGTGGAGGNGAACTTACCCAAATCCAGTTCCTCTCTC
WI-6766	148 G C ---	---	---	AAACAAATGGTGCTATGCATAATATTGTGGTCACAGTATAAACAAATACAATTAGTTTCATATAAC ATTGGATATGGACAAAAATACACANGATCCTTTCTTTGTCTACGGAAATNCTGCAGATCCTTATGT GCCACACTTAAAN[G/C]AAAGTCAACGTTTCTCTCTAGGNTCTGCACACATATTATCACTGA GAATTTGGTCAACAGTGGAGGNGAACTTACCCAAATCCAGTTCCTCTCTC
WI-6787b	97 A G ---	---	---	ACAGATAAAGTCTTTATCCCTGTATGTTTACATAAGAAAGTCTTTACAGACTTTTTTTATACA ATCTTTGTGCAGCAATGTTCAAAATTCAC[G/T]TTTACTGCATAAGATATCTTCATGTACAACCTGT ATGCTTTGTCTCTTGGGAAGGACGGTTAAAGACCTATGATAAACACACATCCACATGACAAAAGGA GAGTGCAATAGGGCAGAGTAGANTCTCACAGGAAAGAGTAAATTCAGGT
WI-6793	105 C G ---	---	---	GAACCCACAGGCTCTGTTATTTTAAAGGAGCATTTACATTATGATAGCAAGTTTCAACACATTCA TCAACAAGGCGGCTTCAAAATCAATCAGTCAACCCCTC[G/G]AGTTAGAAAGTAGATCATGAGGAA GAGCTGCTTGGCTGTAGGAAGTAGGGTTAATGCCCTCTAATCCCGGAAAGGGCAGACTGAAGCCA GAGCCAGANTCCTGGCAATTCACCAAGTTTCTCATCACAGGTAAAAGGCAAC
WI-6810b	37 T C ---	---	---	CACAATAATAAATCACTCCCTACCTGAAACCTTTA[T/C]JAGAAGCATTTTTTAAATTTACAACACA AAGCTCAACGNCCTACAATAAGTCTAGTAGTCTGTTTACNGCCAGGGATAAGGCTGAACAATA AATTAAACCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGAAGTTCTGCAGAGCAATGACC ACTAAGNAATAATTTTAAAGGCTGAACAGATCCAGCGGCAATGAAGTTAAT
WI-6810	37 T C ---	---	---	CACAATAATAAATCACTCCCTACCTGAAACCTTTA[T/C]JAGAAGCATTTTTTAAATTTACAACACA AAGCTCAACGNCCTACAATAAGTCTAGTAGTCTGTTTACNGCCAGGGATAAGGCTGAACAATA AATTAAACCTTTAAAAATGTCTATGNACAAGTACAATTTCTTTTGAAGTTCTGCAGAGCAATGACC ACTAAGNAATAATTTTAAAGGCTGAACAGATCCAGCGGCAATGAAGTTAAT
WI-6817b	145 C A ---	---	---	GCATGATTAAACCAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACAAATCATCACTAACAATGTAGCT GCAGGGTAAAC[C/A]TGTGGATACCTGTGTGCTCTACTNGOCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTGTTCAAAATCTTGGTTCAGGTGCGGCTGTGCAG

WI-6817	145 C A ---	---	GCATGATTAACCAAGTGCAGAAAAATACCAAGTACATTGGGTGAACGATGAGCTAGCTGTTCTAGTA TTTGCTTTTGTAAATCCAGTTAAGACCATCAGCATATACACATCATCACTAACTCAACAATGTAGCT GCAGGTAAC[C/A]ATGTGGATACCTGTGTCTCTACTNGCCTCCAAAGGCATTCAGGGGATCATCA AAGATGTTGGACACCTTGTGTTCAATCTTGTTCAAGTGCGGCCGTGTGCAG
WI-6819b	221 C ---	---	GATGGAAGCCATTTATTTTCTCTAAATTTAAATAGAAGACTTTAATGGAAAAACATTTTAGTAC CATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCTAGTAAAGCCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTTTCATATACAAAAATTTTCTGCTATTTTG CTTTAGCAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATATCCAG
WI-6819a	175 G T ---	---	GATGGAAGCCATTTATTTTCTCTAAATTTAAATAGAAGACTTTAATGGAAAAACATTTTAGTAC CATCATGTCAACCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCTAGTAAAGCCC CGTCAGTAGTACACATTTCTCTATGGTCTTCAACAGTTTGTCTATATACAAAAATTTTCTGCTATT TTGCTTTAGCAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATAT
WI-6826b	154 A G ---	---	GCAAAAAGCTTTATGGTCCCAACAAATTAATCCCTTTTAAACTCCCTCTCTCTCTGGTCTCAGTG GAACAACACATTTGAATTTGAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATAATAATAG ATGCAAAACCTTGATACATGAGAGCTTAAATATATCAAAATGCAAAATATAGATTGGGTGCACTGT TAAGCTGAATTGCAAAATATGGCAACACACACTGGGACTGGGTATACGTTG
WI-6826	154 A G ---	---	GCAAAAAGCTTTATGGTCCCAACAAATTAATCCCTTTTAAACTCCCTCTCTCTCTGGTCTCAGTG GAACAACACATTTGAATTTGAGATTTGCAGTTTATAGCATTTTTCCTAAGAACCATAATAATAG ATGCAAAACCTTGATACATGAGAGCTTAAATATATCAAAATGCAAAATATAGATTGGGTGCACTGT TAAGCTGAATTGCAAAATATGGCAACACACACTGGGACTGGGTATACGTTG
WI-6857a	122 T C ---	---	AGTGCAAACTATTTGAACAAAGTAACTATGAGTCACAGCATTCAGCAAGACATCAGACACGGA AGAGTGAACAAATATCTACTAAGTAAATACAGCAGATGAGATGCTCTCACATGTAT[C]ATTTAAT TATTCATGCTTTTCAATAGTCTCTTAGTCAACTTTCAGTGTAAATTCACAAATATATAGCAGCTCA AACACAAATGCAGGAGCACAATGGCAAAAGTTTGGCAACTGTTTGGGCTAATT
WI-6865	153 G A ---	---	TTATAGAATACTTATGGGGCATAACNGTAAATGAACCTGTCAACCTTAAATCTAAACAAACAGCTTG TTTGTTGTTCTGCTGAAATCCTCCCTGCTCAAAACAGCCAGCTACTNGGTTTCTTAAAGACGTA ATTTTGCAGGCAAACTTC[G/A]TAGAGCCATTCTGTGCAGAGGAGGGAAGGAGAGCTGTTTGT TTACCTGTAGTATGAAGATATCTTTGCGCTGTAGAACTGAGCTCATTA
WI-6909	73 C T ---	---	ATTGAAAACCTGGTAGCAACAGATAAATTACAATAGAGCCTGGATATAAAAATGAGAGAAGAATGC AGACTTA[C/T]AAGCTTATAGAGAAAGTCAAAAGGAGCAAGTTTGTGAAATCAGATTTTATGATAC GGAAAAAAAATTTCCCTTTTGGCAACAGGATTATTCGAATAATAAATCTGCCAGTGCCCAATCAG AAACACCATTTCCACAATAATTTGCATGCCCTAGTTGCCTATTTTATACATATC

WI-6910b	163 G T ---	---	CACTCAAAACCTTTATTCAATGATTTACAAACTGTACAATATTTACAAAGTTTAGGCATTATATCCCA TATTGACATGAATGCTGTGGAGAGTCTAAAAATAAATATGTGGCACATAGCTTAATATACACATCAT GGCTCTTTACACTTAAGCCATTACCAATA[G/T]TGAGATGTAATGGAGAAATTTAATGTGGTAGAAAA GTCAGAGTGGCTGACCAGTCCCGGACCCTCCATGTGAATGACTCTTCCTTGGC
WI-6915	144 A ---	---	GCTTGTTTTTTTGTTTTTTTAAAGTGACACCTTGGCCTTGTTGGGCATTCTTCACCTTATCTACCC AAAAGTGCCCTTGGGCCAGCCACTGACTGATTTAAACCAGAAATGTGGTTTTAAACAATGTGGT CGTGGTGAATTCAGGTGATTTTNAATTTCTATTTGGTAGTATTTTCAGATTTCCACAAAGAACATG TATTGCTTTGTAATTTGAAAAAAAATCAACACAGGATAGTAAAGATAT
WI-6928b	175 T C ---	---	CAATCAAAAGTTCCAAAGTTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAGTTCACTCTTAATTTTCATGTCCCATG CTTGCTTGGTCCCTGTGAGGAAAGGGTGACGTAAGG[T/C]AACTGTTCTATAAGGATGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGIGACCCTTAGAAGTTA
WI-6928	175 T C ---	---	CAATCAAAAGTTCCAAAGTTTCAAAGCTGGGATGAAAAGCCAGGCTTCTGACTTGCACCTGTGCAC ACTGGATTTTNCCTCTGATCCAGCTGCAGCTCCCATAGAAGTTCACTCTTAATTTTCATGTCCCATG CTTTGCTTGGTCCCTGTGAGGAAAGGGTGACGTAAGG[T/C]AACTGTTCTATAAGGATGGTAGG TATCCTGGCAAGATATTTCTCTGAAATAGTAAACGIGACCCTTAGAAGTTA
WI-6955b	79 G A ---	---	TTTTATGAAACATTTCCAGATCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCCTAGGTAAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAATTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6955	79 G A ---	---	TTTTATGAAACATTTCCAGATCCCTCATATCACAGCACATCAATAAGCAGTATGTACATAGACTGA CTTTATAGTAC[G/A]NGTCATGTCCCAAATCCCAATCCCTAGGTAAAGATATCAAGTTACAAANTAC AAGTGCCGNTAATTAACCTATAGGTAGTATATTAAACAAAATGNGTTTTTNGCAATTATGTGAAAT AAGGCTTTAACCAAAGC
WI-6957	47 C G ---	---	AAACTAAAAACCCCTATTGTCTCCAAGTGTGGGCAAAATAGAAAAT[G/G]TTTCAATTACATTAGG AAATCGGGTGGATAACGGAGTATAGTTATCCACTTAAGAAGCACTCCAGTCAAAATAATCACAAAA ACAAATTCAGATTGCTTGGATCTTGGTCATTTATGGCTTGAAGAACTGGATTTGAAACCACCTTTAGG CTAAATAAATGTATATGAATAATGCATAGACTGTGTATCTAGAAAAATCATGC
WI-6996c	242 G T ---	---	ACTTCTAGTGCCTCTGTTACCACCACCTTAATGCCCTCTGGTCGCCGCACTTCTGATGTCGGTAGGCCT TAAATCTGCCTGGGTCCTCCCTCTGCTTTCAGCACCCAGAGGAGAGAGCCGGCAGTTCCCTG CAGGAGAGAGAGGGGTGCTGGACCCCAAGGCTCAGTCCCTCTGCTCTCAGGACCCCCCTGTCTGACT CTCTCCTGATGGTGGGCCCTCTGTGCTCTTCTCTCC[G/T]GTCGGATC

WI-6996b	242	G T ---	---		ACTTCTAGTGCCTCTGTTACCAACACCTCTAATGCCTCTGGTCCGCGCACCTTCTGATGTCGGTAGGCCT TAAATCTGCCTGGGCTCCCTCCCTCTGCTTTCAGCACCCAGAGGAGAGAGAGCGGCGAGTTCCCTG CAGGAGAGAGAGGGGCTGCTGGACCCAGGCTCAGTCCCTCTGCTCTCAGGACCCCTCTGTCCTGACT CTCTCCTGATGGTGGCCCTCTGTGCTCTTCTCTCCG/GTGGCGGATC
WI-6996	228	T G ---	---		ACTTCTAGTGCCTCTGTTACCAACACCTCTAATGCCTCTGGTCCGCGCACCTTCTGATGTCGGTAGGCCT TAAATCTGCCTGGGCTCCCTCCCTCTGCTTTCAGCACCCAGAGGAGAGAGCGGCGAGTTCCCTG CAGGAGAGAGAGGGGCTGCTGGACCCAGGCTCAGTCCCTCTGCTCTCAGGACCCCTCTGTCCTGACT CTCTCCTGATGGTGGCCCTCTGT/GGCTCTTCTCTCCGGTCCGATC
WI-7021b	112	G A ---	---		TGGGAGGACAGGGAGATGCTGCAGTTCCTCAAAAGAGAGGTTCTTCCAGAGTCATCTACCTTGAGTC CTGAAGCTCCCTGTCTGAAAGCCACAGACAATATGGTCCCAATG/AJCCCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACAGCAATCCCAATTAATCAAAAC ACTGTTATTAAACAGATAATAGCAACTTGGGAATGCTTAIGTTACAGGTTA
WI-7021	108	A G ---	---		TGGGAGGACAGGGAGATGCTGCAGTTCCTCAAAAGAGAGGTTCTTCCAGAGTCATCTACCTTGAGTC CTGAAGCTCCCTGTCTGAAAGCCACAGACAATATGGTCCCAATG/AJATGCCGACTGCACCTTCTGTG CTTCAGCTCTTCTTGACATCAAGGCTCTCCGTTCCACATCCACAGCAATCCCAATTAATCAAAAC ACTGTTATTAAACAGATAATAGCAACTTGGGAATGCTTAIGTTACAGGTTA
WI-7056c	118	C T ---	---		GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGGACCTTGGAGAGCCTGCATCCAGGATGCGGGTGG CCCTGCAGCCTCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA/CJTGTTGGGAGCCTCT GGGCTGTTGAAGTCACTTGTGTCCAAGTTTCCAAACACAGAAAGTCATTCCTTCTTTTAA ATGGTCTTAAGTTCAGCAGATGCCACATAAGGGGTTTGCCATTGATA
WI-7056b	118	C T ---	---		GGCAGTAGGACCAACAGTGTGGGTTCTGCTGGGACCTTGGAGAGCCTGCATCCAGGATGCGGGTGG CCCTGCAGCCTCTCCACCTCACCTCCATGACAGCGCTAAACGTTGGTGA/CJTGTTGGGAGCCTCT GGGCTGTTGAAGTCACTTGTGTCCAAGTTTCCAAACACAGAAAGTCATTCCTTCTTTTAA ATGGTCTTAAGTTCAGCAGATGCCACATAAGGGGTTTGCCATTGATA
WI-7091b	153	A C ---	---		AATTCGCTGAAAAAGGAACCTACCTATCCTTACATTTACCTTACTAATGTCTCTTCTAACATCTTAGAG GTCCATGGAGAGGCAATATGGAGAACATGTTTTTACTGCTCTATAAATAGTATTCCTAACATCACTGTG CTTAATTTAAATAGCATT/AJCTTATCATTTATCAGCCTTTTATGATTTTCCAAGTAAAAATATTA ACATATTATTCATTGGTCTCTTTTATCTGGTCTATATGAATGCTAT
WI-7091	153	A C ---	---		AATTCGCTGAAAAAGGAACCTACCTATCCTTACATTTACCTTACTAATGTCTCTTCTAACATCTTAGAG GTCCATGGAGAGGCAATATGGAGAACATGTTTTTACTGCTCTATAAATAGTATTCCTAACATCACTGTG CTTAATTTAAATAGCATT/AJCTTATCATTTATCAGCCTTTTATGATTTTCCAAGTAAAAATATTA ACATATTATTCATTGGTCTCTTTTATCTGGTCTATATGAATGCTAT

WI-7136	58 T C ---			TGTGAAGCCACATTTTCCAAACATGAGCCTCATGAAGCCAACTAAGTGTATTGAACCTGT/CJAATTC TCTCAATAACTCAGTGTAGCACCTTTAAAGTCTGAAGGACAGCAACATGAAAGAGCATATCAATGTG GTGGAGAAAGGGAAGGGTGGCTTTTAAATTTATTTCTTCATCTTTTATAACAAAGAAAGNNNN NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGTAGCTTTCTATATATG
WI-7146c	210 A G ---			GGGACGCTGTGTTTGGCTCAATTTGGGTTTGTGGTCACATGGAGCTCTCCATTTTCGTTTAGCTG AATAATGAGTTGTTCTAGAGGACAGCCCTGTCTCTCTGTTGCCCAAGCCCATGCCCTGCCG TGGTGGCAGCTGGGCTGTGGATGGAGGGGTCCCAACATGGATGTGTGCCCTCTCCGCGCATGOC AACGC[A/G]GTTTCATGTACAAGCCCCCTCTGCAACTGGAGAGAAATTA
WI-7146b	210 A G ---			GGGACGCTGTGTTTGGCTCAATTTGGGTTTGTGGTCACATGGAGCTCTCCATTTTCGTTTAGCTG AATAATGAGTTGTTCTAGAGGACAGCCCTGTCTCTCTGTTGCCCAAGCCCATGCCCTGCCG TGGTGGCAGCTGGGCTGTGGATGGAGGGGTCCCAACATGGATGTGTGCCCTCTCCGCGCATGOC AACGC[A/G]GTTTCATGTACAAGCCCCCTCTGCAACTGGAGAGAAATTA
WI-7146	202 G A ---			GGGACGCTGTGTTTGGCTCAATTTGGGTTTGTGGTCACATGGAGCTCTCCATTTTCGTTTAGCTG AATAATGAGTTGTTCTAGAGGACAGCCCTGTCTCTCTGTTGCCCAAGCCCATGCCCTGCCG TGGTGGCAGCTGGGCTGTGGATGGAGGGGTCCCAACATGGATGTGTGCCCTCTCCGCGCAT[G/A]CCAAACGAGTTTCATGTACAAGCCCCCTCTGCAACTGGAGAGAAATTA
WI-7153	161 A T ---			ATATTACAACCTGCTTTTAGCTGATCTCCATCCTCAATGACTCTTTTCTTTATATGTTAACATA TATAAATGGCAACTGATGTCATTTTGAATTTTATTCAGGAACATCTGAAATCTGCTCAGAGCCT ATGTGCATAGATGAAACNNNNNNN[A/T]AAAAAAGTTATTTAACAGTAATCTATTTACTAATTAT AGTACCTATCTTTAAAGTATAGTACATTTTACATATGTAATGGTATGTTT
WI-7155	156 T G ---			TAGAATAGATGCGGTCATATCTCTTTGGCTTCTGGTCTCCAGCCCTCATGGTTGGCATCACATAT GCCTGCATGCCATTAAACACAGCTGGCCCTACCCCTAATGATCCTGTGTCCTAAATTAATACAC CAGTGGTTCTCCTCCCTGT/GTAAAGACTAATGCTCAGATGCTGTTACGGATATTTATATTTCTAG TCTCACTCTCTGTGCCACCCCTCTCTCTCTCCCAATCCCACTCCAG
WI-7169b	161 A G ---			AGCTCCACAGATGCAGATTGTGTTTGTGTTTCTGTTTATCACTGTCACACAGCTTATAACATGTAT GCTTTTCAGAAATACAGTTGTCTAGCCCAAGCCATCAAGTGTCTGAAATTCAAATTTGGTTTATGCAAAT ACAGCAAACTTTTATTTAAGTAGAT[A/G]GGGAGAAATATGTTTAAATATTAGGAATCCTAGACCATA TTTTCAAGTCATCTTAGCAGCTAGGATTCTCAATGGAAGTTATATATA
WI-7175b	194 C T ---			CTCCTAGACTAGTGTCTTACCTTTTAAATGAACGTGTGACAGGAAGCCCAAGGCAGTGTCTCCACCA ATAAATTCAGAGAAAGTCAGTTGGAGAAAATGAAGAAAAAGGCTGGCTGAAATCACTATAACCATC AGTTACTGGTTTCAGTTGACAAAAATATATAATGGTTTACTGTCTGTCATTGTCCTGCTA[C/T]JAGAT AATTTATTTTGATTTTGAATAAAAAACATTTGTACATTCCTGATACCTGGG

WI-7175	194	CT ---			CTCTAGACTAGTGCCTTACCTTTATTAATGAACGTGTACAGGAAGCCCAAGGCGAGTGTCTCTACCA ATAACTTCAGAGAAAGTCAGTTGGAGAAATGAAGAAAGGCTGGCTGAAATCACTATAACCATC AGTTACTGGTTTCAGTTGACAAAATATAATGGTTTACTGCTGCTCATTTGCCATGCCTA/C/TJAGAT AATTTATTTGTATTTTGAATAAAAACATTTGTACATTCCTGATACTGGG
WI-7178b	273	GA ---			TGTATCAGGTGAGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCTCTGAGCCAGCTGCCTGGAG AGGCTCTCGCTGTCAGTGGCTGGCTCCTAGGGAACAGACCCAGTGACCCAGAAAGCATAACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTCACATAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7178	273	GA ---			TGTATCAGGTGAGGACTTGGACAGGAGTCAGTGTCTGGCTTTTCTCTGAGCCAGCTGCCTGGAG AGGCTCTCGCTGTCAGTGGCTGGCTCCTAGGGAACAGACCCAGTGACCCAGAAAGCATAACACCA ATCCAGGGCTGGCTCTGCACCTAAGAGAAAATTCACATAATGAATCTCGTTCCCAAGAACTACCC CCTTTTCAGCTGAGCCCTGGGACTGTTCCAAAGCCAGTGAATGTGAAGGAA
WI-7182b	116	AC ---			GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGTGTCACCAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACAGTTCTCTGCAACCCACTGTAGCCCTA/C/TCTCTCCTCTATTT TACTTGAGGCTGCCAATTACCAAGCCACGTTTCAGCTCAAGAGATGCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGATGGCAGCTATTTCTGAGCCCTAGTACCCCAATT
WI-7182	106	CA ---			GCATATTTGGCAGCTTATTGCTTCGAAACCCAGCTGTGTCACCAAGCTTGATATACAGAGAAGAAG AAGGCTCAAGAAATTTATTCACAGTTCTCTGCAACCCACTGTAGCCCTA/C/TCTCTCCTCTATTT TACTTGAGGCTGCCAATTACCAAGCCACGTTTCAGCTCAAGAGATGCCTTAAGATAATTATGTGAGG CCACTTGGTAGCAAGATGGCAGCTATTTCTGAGCCCTAGTACCCCAATT
WI-7191b	273	TA ---			ATAATTGCTTGTCTAGCCTGGCAAGATATTTTCAAAAGAGGGATAACAATGCTGATTACTAC CTTTTAAATATTTTAGATAAATGCACAGCACACAGACACCATCTAAGCATTAGTGATGGGTAGC TGATGTCAGCTTCATGTGGAATTTAAGCACTCTAGAAACAATGAAGCTTCTTGGCATAATTTAAGGAG CTCCCAAAATGTGTTACCTATTAAATTTGTAACTCAGCAAGTAGAAGACCATT
WI-7199c	112	TC ---			CCCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCCCTCCCTGTGGCCTTATGAGCTCAGCCTC GCTTTGAGGTACCCACCGTCTGTGAGCTCCTTGACCTATGAGCT/CJGGGGCCCTGACTAGGAAAAGT TGGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGGTGTCTGAATTTCTCTTTATTAT AGTCTATAGTTTACTCCTCAGTTCCTCACCATCATCTTGCTAA
WI-7199b	112	TC ---			CCCAGTGGTGAACAGAACCTCCCAAAATTTGAGTTGCACCCCTCCCTGTGGCCTTATGAGCTCAGCCTC GCTTTGAGGTACCCACCGTCTGTGAGCTCCTTGACCTATGAGCT/CJGGGGCCCTGACTAGGAAAAGT TGGGAGTTAAGGAGGAAATAGCATTCCTTAATGTTTGGTGTCTGAATTTCTCTTTATTAT AGTCTATAGTTTACTCCTCAGTTCCTCACCATCATCTTGCTAA

WI-7216c	237	T C ---	---	TGACACTAACACTCTAATTCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATTCCCCTCCAGAAAAATACGTATGT TTAAAAACCCCTTCTGCTATACATAGGAAAAGACACACATCCACCTAAATTGACTGTACTGTTTAA CTGTCAATTCTCCTGAGGCTAAACACAGTTGTTTTTTCCTTGTAATCACTT
WI-7216b	237	T C ---	---	TGACACTAACACTCTAATTCAAGCGAATGTTGGAACACCATGACCTCCTCTGTGTGTCCTTTCTCCCC AAGGACAAAATGTAGAAAGATGTGAGATAACTTACTCAAGATTCCCCTCCAGAAAAATACGTATGT TTAAAAACCCCTTCTGCTATACATAGGAAAAGACACACATCCACCTAAATTGACTGTACTGTTTAA CTGTCAATTCTCCTGAGGCTAAACACAGTTGTTTTTTCCTTGTAATCACTT
WI-7220b	147	A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCAATATTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA GTGGCACTAGAAJA/TJAATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGGTAACAAACCCCTATAAATCTGGCTTACTGCACATAATTAGTGTTT
WI-7220	140	A T ---	---	AGGATGATGCTCCAAAGGGGACCTTGAACCTATTCACCAATATTGTCTCTTTAAGCTGGCAACCCCA TCATTAAATAGCACATAAAATAGCAATCATATGGGATAAGTAGTACAGCTTCAGTAATCAATGGGCA GTGGCJA/TJCTAGAAAAATCTTGAGCACAGTGAATGACCTATCCTGCAACATCTAATGGATCTCTA AAGGGTAACAAACCCCTATAAATCTGGCTTACTGCACATAATTAGTGTTT
WI-7226	232	C ---	---	GATCGAATTTTTCAGATGATTCGGAAATTTTCATTCAGGATTTGTAATAGTGACATATATATGTATA TACATATCACCTCCTATTCTCTAAATTTTGTAAATGTTAACTGGCAGTAAGTCTTTTGTGATCATTT CCCTTTCCATATAGGAAACATAATTTGAAGTGGCCAGATGAGTTTATCATGTGAGTGAATAATA TTACCCACAAATGCCACCAGTAACCTTAACGATTCCTCACTCTTGGGGTTT
WI-7228b	254	G A ---	---	ATAGCTCCAGATTACAAAGGCCAAGGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTTTGCTCTCTTTGCTTTGTAACTATTTAGTTGATTTTAAATTA CTTTCTGAATAACGGAAGGGATCAGAAGATATCTTTTGCGCTAGATTGCAAAATCTCCAATCCACA CATATTGTTTTAAATAGAAATGTTATCCAACCTATTAAGATATCTCAATGTT
WI-7228a	163	G A ---	---	ATAGCTCCAGATTACAAAGGCCAAGGGTAATAGAAATGCATACCAGTAATGGCTCCAATTCATAA TATGTTCAACAGGAGATTACAAATTTTTTGCTCTCTTTGCTTTGTAACTATTTAGTTGATTTTAAATTA CTTTCTGAATAACGGAAGGGATCAGAAJG/AJATATCTTTTGCGCTAGATTGCAAAATCTCCAATCC ACACATATTGTTTTAAATAGAAATGTTATCCAACCTATTAAGATATCTCAA
WI-7233c	213	C T ---	---	CGATGCTACTGCCAGTAGCATTTGCTGTCTGTCGGGCTTGTTGTACATTCATTTTCAATTTGTTACA GATGTGAACITTTATCTTGTCACTAATTAATTTAAATTTTCTAGGAAGTCAAAAAATAATAA TAAAGGTTGAGCCCTCTACTTTCTTCTTGCCACCTTTTGTGGCAATATTAAAGTGAAGTACTGCTAATA GTGTAAGTAJCTGTGCACAAAAACCACTGCCAGATAACAGAGGGGCGCTG

WI-7233b	213	C T	---	---	CGATCGTACTGCCAGTAGCATTTGCTGTCTGTCGGGTCTTTGTATCATTCCTCAATTTCAATTTGTTACA GATGTGAACCTTTATTCCTTGTCACATAATATTTAAAAATATTTCTAGGAAGTCAAAAAATAATAA TAAAGGTTGAGCCCTCTACTTCTCTGCCACCTTTTGTGGCAATATTTAAAGTGAACCTGCTAATA GTGTAAGTATCTGTGGCACAACCACTGCCAGATAACAGAGGGGCTG
WI-7233	211	T C	---	---	CGATCGTACTGCCAGTAGCATTTGCTGTCTGTCGGGTCTTTGTATCATTCCTCAATTTGTTACA GATGTGAACCTTTATTCCTTGTCACATAATATTTAAAAATATTTCTAGGAAGTCAAAAAATAATAA TAAAGGTTGAGCCCTCTACTTCTCTGCCACCTTTTGTGGCAATATTTAAAGTGAACCTGCTAATA GTGTAAGTCTACGTGCACAACCACTGCCAGATAACAGAGGGGCTG
WI-7238	128	T C	---	---	GGGTACAGACAGCTCACCATTTTGTCTGTATCTGTAAACACTTTTGTCTTAGTCTTTTCTTTCTTG TAAATTGATGTTCTTTAAATCGTTAATGTATAACAGGGCTATGTTTCAGTTTGTTTT[C]CGTT CTGTTTTAACAGAAAAATAAAGGAGTGAAGCTCTTTTCTCATTTCAAAGTTGCTACCAAGTGAT GCAGTAATTAGAACAAAGAAACATTCAGTAGAACATTTATTGCCTA
WI-7252f	520	T C	---	---	CCACAGGATCCAGCCAAAGGGGCCCCCTCCGCCCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCGGGCTGGCTCGAGGCTGCCCCGGCCCCCTGGTCTCTGTTGTCOG GACACTCTAGAGAACGCGAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCTCTCCA
WI-7252e	552	T C	---	---	CCACAGGATCCAGCCAAAGGGGCCCCCTCCGCCCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCGGGCTGGCTCGAGGCTGCCCCGGCCCCCTGGTCTCTGTTGTCOG GACACTCTAGAGAACGCGAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCTCTCCA
WI-7252d	540	T C	---	---	CCACAGGATCCAGCCAAAGGGGCCCCCTCCGCCCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCGGGCTGGCTCGAGGCTGCCCCGGCCCCCTGGTCTCTGTTGTCOG GACACTCTAGAGAACGCGAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCTCTCCA
WI-7252c	552	T C	---	---	CCACAGGATCCAGCCAAAGGGGCCCCCTCCGCCCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCGGGCTGGCTCGAGGCTGCCCCGGCCCCCTGGTCTCTGTTGTCOG GACACTCTAGAGAACGCGAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCTCTCCA
WI-7252b	540	T C	---	---	CCACAGGATCCAGCCAAAGGGGCCCCCTCCGCCCCCTTCCACTCGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGCCAGCCCCGGGCTGGCTCGAGGCTGCCCCGGCCCCCTGGTCTCTGTTGTCOG GACACTCTAGAGAACGCGAGCCCTAGAGCCTGCCTGGAGCGTTTCTAGCAAGTGAGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACTCAGTCATTAGACTCCTCTCTCCA

WI-7252a	520 T C ---	---	CCACAGGATCCAGCCCAAGGGGCCCTCCGCCCTTCCCACTGCAGCAGACGCCGGGACAGAG GCCTGCCGGGGCGGCCAGCCCGGGCCCTGGCTCGGAGGCTGCCCCCGCCCCCTGCTCTGGTCCG GACTCCTAGAGAACGCGCAGCCCTAGAGCCCTGCCCTGGAGCGTTTCTAGCAAGTGAGAGATGGGAG CTCCTCTCCTGGAGGATGCAGGTGGAACCTAGTCATTAGACTCCTCCTCCA
WI-7265m	252 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCTT
WI-7265l	231 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265k	121 T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265j	174 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT CTTAAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265i	227 T C ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT CTTAAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265h	80 T A ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT GTTTAAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT CTTAAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT
WI-7265g	170 T G ---	---	AAC TTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAAGTAAATGCATTTTACCCATTCTGTGGTTCAATTGTAGTT TAAGGAAACCAAGCATATAGATGCATTAGTATTTGTTTATATTATGTAATAATAACGATCTCTT CTTAAAAATACCACAGTTTGATTTTTTTCTTTAAGGAGTAAAGATTGCGCT

WI-7265f	231	T A ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGAGTT TAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7265e	227	T C ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGAGTT TAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCTCTT AAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7265d	174	T A ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGAGTT TAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7265c	170	T G ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGAGTT TAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7265b	121	T G ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGTA GTTTAAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7265a	80	T A ---	---		AACTGGTTATGTCAGTTCCTGTGTGTAGACAGTAAGGAAAAAGGCATGCTATGTGTACGTGTTT TTTCCAGTATGTTTATTTGCCACCAAAAGTAAATGCATTTTACCCTTCTGTGGTTCAATTGTA GTTTAAAGGAAACCAAGCATAGATGCAATAGTATTTGTTTATATATGTAATAATAACGATCT CTTAAAAATACCACAGTTTGTATTTTCTTTTAAAGGAGTAAAGATTGCGCT
WI-7281b	183	C ---	---		GATCACCAGCCACAGCCCTCGAGGGCCCTATACCATGGCCACCTTGGAGCAGAGAGCCAAAGC ATCTTCCCTGGGAAGTCTTTCTGGCCAAAGTCTGGCCAGCCTGGCCCTGCAGGTCTCCCATGAAGGCCA CCCCATGGTCTGATGGGCATGAAGCATCTCAGACTCCTTGGCAAAAACGGAGTCCGCGAGGCCGAG GTGTTGTGAAGACCCTCGTTCTGTGGTGGGGTCTCTGCAAGAAGGCCCTCCTC
WI-7281	171	C A ---	---		GATCACCAGCCACAGCCCTCGAGGGCCCTATACCATGGCCACCTTGGAGCAGAGAGCCAAAGC ATCTTCCCTGGGAAGTCTTTCTGGCCAAAGTCTGGCCAGCCTGGCCCTGCAGGTCTCCCATGAAGGCCA CCCCATGGTCTGATGGGCATGAAGCATCTCAGACTC/C/AJTTGGCAAAAACGGAGTCCGCGAGGCCG CAGGTGTTGTGAAGACCCTCGTTCTGTGGTGGGGTCTCTGCAAGAAGGCCCT

WI-7282b	159	G C	---				TGTCACCTGGCACATTCATTTCTCAGTTGAAGAAGAGAAAAATTTGAAAATGTCCTTATGCTTTTAGA GTTGCAACTTAAGTATATTTGGTAGGGTGAGTGTTCCTCACTCAAATATGTCAACTNNNNNNNT AGGCCCTTTCATAAAAAACCAACT[G/C]TAGCAAGATGCAATGCATGGCAATCTGTCGGTCTCCA GTTGGTTATCTGAATAGTGTCAACCAATTCACCAAGACAGTGTGAGATTGG
WI-7292	92	T C	---				CTTGATTACTTCCACTGAGGTGGGAGCATCTCCAGTCTCCCAATTATATCTCCCCCACTCCACTAC TCTCTCCCTCCACTTCAITTTCC[F/C]TTGTCTTCTCTCTAATTCAGTGTTTTGGAGGCCCTGACTTG GGACAACGTATTATGATATTATGTCTGTTTCTCTCCCAATAGAAATAAGTCATGGAGCC TGAAGGGTGCTAGTTGACTTACTGACAAAAGGCTCTAGTTGGGCTGA
WI-7301f	133	A G	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTG A/GJCGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCA ATCAAATTATGGACACATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG
WI-7301e	94	T G	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTG[F/G]TGAGGATATGATGGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG
WI-7301d	138	A G	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTGA CGGT[A/G]GTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG
WI-7301c	211	A C	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTGA CGGTAGTAACTATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAATCA AATTATGGAC[A/C]ATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG
WI-7301b	182	C T	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTTGA CGGTAGTAACTATGGTGGTGGGAACTATAATGATTTTGGAAATT[A/C]TAGTGGACAACAGCAA TCAAATTATGGACACATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG
WI-7301	88	G T	---				AACTATGGCAGTGGTCTGTTATAGTAGTAGAGGCGGGTATGGTGGTGACCAAGGATATGGAA ACCAAGGTGGTGATATGGT[G/F]CGGTGTTGGAGGATATGATGGTTACAATGAAGGAGGAAATTT TGACGGTAGTAACATATGGTGGTGGGAACTATAATGATTTTGGAAATTACAGTGGACAACAGCAA TCAAATTATGGACACATGAAAGGGGCGAGTTTGGTGGAAAGCTCGGGCAG

WI-7301	205	A C ---	---	---	AACTATGGCAGTGGTCCTGGTTATAGTAGTAGAGCGGGTATGGTGGTGACGAGGATATGGAA ACCAAGGTGGTGGATATGGTGGCGGTGTTGGAGGATATGATGGTTACAATGAAGAGGAAATTTTGA CGGTAGTAACATATGGTGGTGGTGGGAACATAATGATTTTGGAAATTACAGTGGAACAACAGCAATCA AATTACJTGACACATGAAGAGGGGGCAGTTTGGTGAAGAAGCTCGGGCAG
WI-7314c	49	G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTAATTTGGGAGGTCA[G]ATTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAAATAAGTCAATTAATAAACTTCCCAGG ATTTCTTTGGACCCAGGAACAGCCATGTGGGTCTTTCTGTGCACATGAACGCTTCTTTCCCAGGA CAGAAATGTGTAGTCTACCTTTATTTTATTAAACAAAACTTGTTTTT
WI-7314b	49	G A ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTA[G]TTTGGGAGGTCA[G]ATTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAAATAAGTCAATTAATAAACTTCCCAGG ATTTCTTTGGACCCAGGAACAGCCATGTGGGTCTTTCTGTGCACATGAACGCTTCTTTCCCAGGA CAGAAATGTGTAGTCTACCTTTATTTTATTAAACAAAACTTGTTTTT
WI-7314	36	A G ---	---	---	CTCTCCTTTTCTTCAGATCTGCTCCTGGGTTTA[G]TTTGGGAGGTCA[G]ATTGTTCTACCTCACTG AGAGGGAACAGAAAGGATATTGCTTCTTTTCAGCAGTGTAAATAAGTCAATTAATAAACTTCCCAGG ATTTCTTTGGACCCAGGAACAGCCATGTGGGTCTTTCTGTGCACATGAACGCTTCTTTCCCAGGA CAGAAATGTGTAGTCTACCTTTATTTTATTAAACAAAACTTGTTTTT
WI-7321b	199	C T ---	---	---	ACTCAGGGAAGGATGCCCCATTAAAGTGACAAAAGGGTGGGTGGGCACCATGGCATGAGGAAG AAACAAAGTCCCTGAGCAGGCACAAAGTCTGACAGTCAAGGGACTGCTTTGGCATCCAGGGCCTCCA GTCACCTCACTGCCATACATTAGAAATGAGACAATCAAGNNNNNNNAGGGTGGCACACCCATC[C /T]GTTGCTGGGTGTGGCAGCCACATCCAAAGACTGGAGCAGCAGGCTGGCCA
WI-7321	199	C T ---	---	---	AGACATTCTCGCTTCCCTGAAAGACTGAAGAAAGTGTAGTGCATGGGACCCACGAAACTGCOCTGGC TCCAGTGAACCTTGGGCACATGCTCAGGCTACTATAGGTCCAGAAGTCTTATGTTAAGCCCTGGCAG GCAGGTGTTTATTAAATTTCTGAATTTTGGGGATTTTCAAAGATAATATTTTACATACACTGTATGT TATAGAACCTTCATGGATCAGATCTGGGGCAGCAACCTATAAATCA[A/C]CA
WI-7336b	248	A C ---	---	---	CTCTTCTCAGCACATTGATGGGCAACTAGAATTACAGCAGTTTCAAACCTTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGGTGCAAGAAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGTCAGAGAACAACAAAGAAACAGAAATCAATATATAATTCAAAGACTATCTGCAGCTA GTGTGTTTCTTCTTTACACAC[A/G]TATACACACAGACATCAGAAAATTCGTT
WI-7338c	221	A G ---	---	---	

WI-7338b	125	A C ---	---	CTCTTCTCAGCACATTGATGGCAACTAGAAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGTGCAAGAATATTGGCAAAAGGTGCTTT[A/C]CCTTG AGCCATTATTTGTGTCAGAGAACAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAG CTAGTGTGTTCTCTTTACACACATATACACAGACATCAGAAAATTCGTGTT
WI-7338	125	A C ---	---	CTCTTCTCAGCACATTGATGGCAACTAGAAATTACAGCAGTTTCAAACCTCTACCATGGATAATGCA AACAAACCGAAGCTACATGCCAATGATAGTGCAAGAATATTGGCAAAAGGTGCTTTACCTTGAGC CATTATTTGTGTCAGAGAACAACAAAGAAACAGAAATCAATATATAAATTCAAAGACTATCTGCAGCTA GTGTTGTTCTCTTTACACAC[A/G]TATACACACAGACATCAGAAAATTCGTGTT
WI-7338	221	A G ---	---	CCATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAAATTTAAATACCATTAATACATTTGATTTTCAATTTGTAACAGGTTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACATTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384c	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAAATTTAAATACCATTAATACATTTGATTTTCAATTTGTAACAGGTTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACATTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384b	146	T A ---	---	CCATGTCAATGAAATGCTAGGGGCCAGGGAAACAAAATTTTAAAAATAATAAAATTCACCATAG CAATACAGAATAAATTTAAATACCATTAATACATTTGATTTTCAATTTGTAACAGGTTATTTCTTCA CAGATCTCATTTT[A/J]AAAAATCTTAATGATTATTTTATTACTACTGTGTTTAAAGGGATGTTA TTTTAAAGCATATACCATACATTAAGAAATTTGAGCAGAAATTTAAAAAGAA
WI-7384	145	T A ---	---	TGAATCCTGGGTCCTTGGCCCTGCTGTAGCTGGTTATTTTACTTTGCCCTCCCTCCCTCTTTT TGAGATCCATCCTTTTATCAAGAAGTCTGAAGCGACT[A/J]TAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTGCAACAAGGTTACCTCTATTTTGGCCACAAGCGTCTCGGGATTGTGTTTGA CTTGTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATGG
WI-7388c	106	A T ---	---	TGAATCCTGGGTCCTTGGCCCTGCTGTAGCTGGTTATTTTACTTTGCCCTCCCTCCCTCTTTT TGAGATCCATCCTTTTATCAAGAAGTCTGAAGCGACT[A/J]TAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAGCATTGCAACAAGGTTACCTCTATTTTGGCCACAAGCGTCTCGGGATTGTGTTTGA CTTGTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATGG
WI-7388b	106	A T ---	---	CTTGTGCTGTCTCCAGAAGACTTTTCCCCCAAGATGTGTATAGTTATGG

WI-7388	94	T A ---	---	TGAATCCTGGGTCCTTGGCCTGCTCTGAGCTGGTTATTTTACTTTGCCCTCCCCACTTTTT TGAGATCCATCCTTTATCAAGAAGT/AJCTGAAGCGACTATAAAGGTTTTTGAATTCAGATTTAAAA ACCAACTTATAAAGCATTGCAACAAGGTACCTCTATTTGCCACAAGCGTCTCGGATTGTGTTGA CTTGTCCTGTCCCAAGAACTTTCCCCCAAGATGTGTAGTTATTGG
WI-7438	64	A G ---	---	TTAGATTTTAATTGGCAACCAGCAACTCACTGCCACCATCCCACTGCAGATCTNCTATTCCTGG[A/G] GTTGATATGACAAGGAACCCCTATTGGAACCAAGTCTCAGATTGTNCCATGTGCAGACAGGCTCT TGTCGTAGGTGTAGTACATGTACACTGTACTGTTCACGTAAACATAGTTTGTNCTGGTATTGTGA TTGGAATGAATATCGCTTCCACTGACTTTTACCA
WI-7454b	152	T C ---	---	CCATGATCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCCCTGATAGCACTGTCTGAATGCCAGGAGCCTCCAAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCAA CAGACTCATCCTTAAAAATCCCAATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7454	152	T C ---	---	CCATGATCCCCTCCTCTTGCCAAATGGAGGAAGCCTGTGGATGGTACCAACAACAAGCCCCAAACC CAGTACAAACTGAGAAATGAGAGAACCCCTGATAGCACTGTCTGAATGCCAGGAGCCTCCAAAGGCTAA TCCTACCCCTGGATTCTT/CJTGTGTTTAAAGTTATTTCTAGCCACCACAAGAGGGTACTGCCCAA CAGACTCATCCTTAAAAATCCCAATTTGTCTACTTCTCAAAATGTTTTGACA
WI-7464c	177	G C ---	---	AATTTGAAAATCTGAAAAAAGTGCTAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCATAAATTAATTTAATTTCCCTATGTA CAACAGAGCCACAGCACAAAGAGGGTGGGCATAAGCAGTTGCCA[G/C]CCAGAAGAGCTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTTCAACAATAATAT
WI-7464b	168	C A ---	---	AATTTGAAAATCTGAAAAAAGTGCTAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGCATAAATTAATTTAATTTCCCTATGTA CAACAGAGCCACAGCACAAAGAGGGTGGGCATAAGC[A/A]AGTTGCCAGCCAGAAGAGCTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTTCAACAATAATAT
WI-7464a	103	C A ---	---	AATTTGAAAATCTGAAAAAAGTGCTAAGCAGAGAGAAATGACACTTATTCCAAATAAATAAATTGT CCATTTTCACTCAGTCCATCTTAACCATGTACAATGC[A/A]ACTAAATTAATTTAATTTCCCTAT GTACAACAGAGCCACAGCACAAAGAGGGTGGGCATAAGCAGTTGCCAGCCAGAAGAGCTTCACTCAT GAAAGAAAGCCCTACAAATAGGCCCCAGGAGAGCAACGTTTCAACAATAATAT
WI-7499b	134	T G ---	---	CAATTCCTCAATCCAACTAGTCTGNTGCCTAAACCATTCAGACAAACCTCCACTTCGAAGGTTTTA AATGCATAAGTCAGATAGCAATCCTTCAGTTGCCCCAGAGGCACATCAGTTCTTTGAATGCTTCAIT /GJTATAGTCCCTTCAITTAGCAATCAGTGAGGCAATACACTGGCATCATGCCCTTTTTTTAGGA ACTCTGTACAAAAATCCCTTTTGAAAAATATAAATTTTGAAATGAGTGATGA

WI-7499a	33	A G ---	---	CAATTCTCAATCCAACTAGTCTGNTGCCTAA/GJCCATTCCAGACAACTCCACTTCGAAGGTT TTAAATGCATAAGTCAGATAGCAATCCTTCAGTTGCCAGAGGCACATCAGTTCCTTTGAATGCTTC ATTATAGTCTCTTCATTTAGCAATCAGTGAGGCAATACACTGGCATCATGATCCCTTTTTTAGGAA CTCTGTACAAAATTCCTTTTGAATAATATAATTTTGGAAATGAGTGATGA
WI-7506b	118	A C ---	---	TGGGAATAGTAAGAGAAAGATGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAAT GCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGCTGATTGCCTAGC/A/CJGGAGAGTTGAG TGCCACAGGTAAAGATGAGTGAAGAGGAAAATCATGATGTCATGTATGCAGTAATTAATGATCA GAAGAAAATATTTTAAATATTGGACCACCTCTTGTTCTACCATCCCTACCCACT
WI-7506	118	A C ---	---	TGGGAATAGTAAGAGAAAGATGGAAAGGTGACCAAAAACAATATAGAGGCAGAGGCCAAGTGAAT GCATCCCAGCAGCAGACCACCTTNAAGAGTAGTCTGGTGTGCTGATTGCCTAGC/A/CJGGAGAGTTGAG TGCCACAGGTAAAGATGAGTGAAGAGGAAAATCATGATGTCATGTATGCAGTAATTAATGATCA GAAGAAAATATTTTAAATATTGGACCACCTCTTGTTCTACCATCCCTACCCACT
WI-7534b	143	C T ---	---	TGTGAATTCCTAGCTCTGGAAGGTGTTATGCTTTGCGGGTTCTTGATGTTGCGAGTGTACCCCA AGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCGTGGACACATCCCGGTGATAGAAATGCT AAATTTGTC/TJGTGAAATAGGTAGAAATTTTCTTAAATTAAGTTTCTTATTCGTGAAAAATTCGG AGAGTGTCTGCTAAATTTGGATTGGTGTGATCTTTTGGTGTGTAATTT
WI-7534	135	T C ---	---	TGTGAATTCCTAGCTCTGGAAGGTGTTATGCTTTGCGGGTTCTTGATGTTGCGAGTGTACCCCA AGAGTCAGAACTGTACACATCCCAAAATTTGGTGGCGTGGACACATCCCGGTGATAGAAATGCT /CJAAATTTGCTGAAATAGGTAGAAATTTTCTTAAATTAAGTTTCTTATTCGTGAAAAATTCGG AGAGTGTCTGCTAAATTTGGATTGGTGTGATCTTTTGGTGTGTAATTT
WI-7543b	162	G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGAGACCTTTGAAGACC AGTCCTGTTTGAGGGAAGCCCACTTGAAAGGAAGAGTCTAAGAGTGAAGTAGGTGACTTTGAAC TAGATTGCATGCTTCTCTCTTTGCTCTT[G/A]GGAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTT CTCTGCAGCCCTCAGATTAATTTCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7543	162	G A ---	---	GGGAAAGAATAAAATAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGAGACCTTTGAAGACC AGTCCTGTTTGAGGGAAGCCCACTTGAAAGGAAGAGTCTAAGAGTGAAGTAGGTGACTTTGAAC TAGATTGCATGCTTCTCTCTTTGCTCTT[G/A]GGAAGACCAGCTTGCAGTGACAGCTTGAGTGGGTT CTCTGCAGCCCTCAGATTAATTTCTCTGGCTCCTTGGATGTAGTCAGTTA
WI-7555c	60	T C ---	---	GGTGATCAAGATCTGTCCACAGGGCTAATGCCACCATCTCCCTCAAAATTTGTAGAGGTC/JCTA AAAAGAAAAGTGGTATGTTGTGTGATGATCAGCACTAAGTCTGCAATTCCTGTTAAAGCCACTGGGTC ATAAGAAGGGGAAGTAAAAAATGAAGTCTGACTAGAAATTTCTATTGAGAGGCCAAGTACATTTAGT ATGGCATTGAGTTGTGATATAGTTTTCATTTGATGTGCAATTTTGAATTCAG

WI-7555b	60 T C ---			GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCTCAAAATTTGTAGAGGT/CJTCCTA AAAAGAAAGTGGTATGTTGTGTGATGATCAGCACTAAGTCTGTCATCTCTGTTAAAGCCACTTGGGTG ATAAGAGGGAAGTAAAAATGAAGTCTGACTAGAAATCTATTGCAGAGGCCAAGTACATTTAGT ATGGCATTGAGTTGTGATATAGTTTTCATTTGATGTGCATTTTGAATTTACAG
WI-7555	60 T C ---			GGTGATCAAGATCTGTTCCACAGGGCTAATGCCACCATCTCCCTCAAAATTTGTAGAGGT/CJTCCTA AAAAGAAAGTGGTATGTTGTGTGATGATCAGCACTAAGTCTGTCATCTCTGTTAAAGCCACTTGGGTG ATAAGAGGGAAGTAAAAATGAAGTCTGACTAGAAATCTATTGCAGAGGCCAAGTACATTTAGT ATGGCATTGAGTTGTGATATAGTTTTCATTTGATGTGCATTTTGAATTTACAG
WI-7567b	290 G T ---			TGAGCCATCACTAGAAAGAAAGCCCATTTTCAACTGCTTTGAAACTTGCCTGGGCTTGAGCATGAT GGGAATAGGAGACAGGGTAGGAAGGGCGCTACTCTTCAGGGTCTAAAGATCAAGTGGGCTTGG ATCGCTAAGCTGGCTGTTTGTATGCTATTTATGCAAGTTAGGGTCTATGTATTAGGATGCGCCTAC TCTTCAGGGTCTAAAGATCAAGTGGGCTTGGATCGCTAAGCTGGCTCTGTTT AATGATCCCCCTTCGGTCCACAAACAGGAACCTGACTGGGCAGTGAAGGAAGGATGGCAT/CJ AGCGTTATGTGTAAAAACAAGTATCTGTATGACAAACCCGGGATCGTTTGCAAGTAACTGAATCCAT TGGACATTTGTGAAGGCTTAAATGAGTTTAGATGGGAATAGCGTTGTTATCGCCTTGGGTTTAAAT ATTTGATGAGTTCCACTTGTATCATGCGCTACCCGAGGAGAAGAGGAGTTTG
WI-7569b	63 T C ---			GCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCCCTCTGTTTGTGTTGCCAAGGCCAAAC TCCCACTCTCGCCCCCTTTAATCCCCCTTCTACAGTGAGTCCACTACCCCTCACTGAAAATCATTTTG TACCACCTACATTTTAGGCTGGGCAAGCAGCCCTGACCTAAGGGAGAATGAGTTGGACAGTTCCTG ATAGCCCAGGGC/A/GTCTGCTGGGCTGACCAAGTACTCATCCCCGTTA
WI-7574c	216 A G ---			GCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCCCTCTGTTTGTGTTGCCAAGGCCAAAC TCCCACTCTCGCCCCCTTTAATCCCCCTTCTACAGTGAGTCCACTACCCCTCACTGAAAATCATTTTG TACCACCTACATTTTAGGCTGGGCAAGCAGCCCTGACCTAAGGGAGAATGAGTTGGACAGTTCCTG ATAGCCCAGGGC/A/GTCTGCTGGGCTGACCAAGTACTCATCCCCGTTA
WI-7574b	216 A G ---			GCCACAGCAGAATGGAGCGGTGTGAGGAAGGTCCCTTTTCCCTCTGTTTGTGTTGCCAAGGCCAAAC TCCCACTCTCGCCCCCTTTAATCCCCCTTCTACAGTGAGTCCACTACCCCTCACTGAAAATCATTTTG TACCACCTACATTTTAGGCTGGGCAAGCAGCCCTGACCTAAGGGAGAATGAGTTGGACAGTTCCTG ATAGCCCAGGGC/A/GTCTGCTGGGCTGACCAAGTACTCATCCCCGTTA
WI-7574	216 A G ---			AATGATGATGATAATGATGATGACGACGACAACGATGATGCTGTGAACAAGAAAAACATAAGAGAGC CTTGGTTCATCAGTGTAAAAAATTTTGAAGGCGGTACTAGTTCAGACACTTTTGAAGTTTGTGT TCTGTTTGTAAAACTGGCATCTGACACAAAAAA[A/T]GTTGAAGGCCCTTATTCTACATTTCAACCTAC TTTGTAAAGTGAGAGAGACAAGAAGCAAAANNNNNNNNNNAAGAAAAATAAAC
WI-7576c	168 A T ---			

WI-7576b	168 A T ---	---	---	AATGATGATGATAATGATGATGACGACGACAACGATGCTTGTAACAAGAAAACATAAGAGAGC CTTGGTTCATCAGTTAAAAATTTTGAAGGCGGTACTAGTTCAGACACTTTGGAAAGTTTGTT TCTGTTTGTAAAACTGGCATCTGACACAAAAA[A/T]GTTGAAGGCCTTATTCTACATTTACCTAC TTTGTAACTGAGAGAGACAAGAACAAANNNNNNNNNNAAGAAAAATAAAC
WI-7577g	77 T C ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAA[G/C]GTTTGCTTCCTTTAA AAATATGCA[T/C]CAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTTGGTTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577p	50 G C ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTTGGTTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577o	157 G A ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AGAAAGTTCAATTTTGGTTTACAC[G/A]TAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577n	48 A G ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTTGGTTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577m	84 G A ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA AAATATGCATCAAAATC[G/A]TCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTTGGTTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577l	93 T C ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AAAGAAGTTCAATTTTGGTTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577k	154 C A ---	---	---	AACCATGTTCCCTTCTTTAGCACCACAAATAATCAAACCCCAACATAAGTGTGTTGCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTACTTTCTCTGAGGGTTTGTAAACAGTAGGAGTTAAT AGAAAGTTCAATTTTGGTTT[A/C]A/CACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC

WI-7577j	117 A G ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCATTTCTCTGAGGGTTTAGTA/GJACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577i	77 T C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCA/T/CJCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577h	50 G C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577g	157 G A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AGAAAGTTCAATTTGGTTACAC/GA/JTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577f	48 A G ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA TAAAAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577e	84 G A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATC/GA/JTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577d	93 T C ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577c	154 C A ---	---	AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCCAACATAAGTGTTCCTTCCTTTAA AAATATGCATCAAAATCGTCTCTCATTTCTCTGAGGGTTTAGTAACACAGTAGGAGTTAAT AGAAAGTTCAATTTGGTTA/CJACGTAGGAAGAAGAGAGCATCAAAGTGGAGATATGTTAACT ATTGTATAATGTGGCCTGTTATACATGACACTCTTCTGAATTGACTGTATTTC

WI-7577b	117	A G ---				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAAACATAAGTGTTCCTTTAA AAATATGCATCAAAATCGTCTCATTTCTCTGAGGGTTTAGTA/GJACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7577	107	G A ---				AACCATGTTCCCTTCTTAGCACCACAAATAATCAAAACCCAAACATAAGTGTTCCTTTAA AAATATGCATCAAAATCGTCTCATTTCTCTGAG/GJGTTTTAGTAACAGTAGGAGTTAAT AAAGAAAGTTCAATTTGGTTACACGTAGGAAAGAGAGAGCATCAAAAGTGGAGATATGTTAACTAT TGATAATGTGGCCTGTATACATGACACTCTTCTGAATTGACTGTATTTC
WI-7619g	106	C G ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTAC ATGGCAGGAAGATGGGCCCTTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619p	150	T C ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTACATGG CAGGAAGATGGGCCCT/CJTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCTC TCTCGCTTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619o	228	A G ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTACATGG CAGGAAGATGGGCCCTTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCTCCT CGCTTTCTTCTTACACAGAAACAT/CJACATACCGAGAAACCTATTTC
WI-7619n	237	G C ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTACATGG CAGGAAGATGGGCCCTTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCTCCT CGCTTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619m	99	C T ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTACATGG TGGCAGGAAGATGGGCCCTTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCTC TCTCGCTTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619l	189	T A ---				ACAAGGCGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGACACAAGAC AGAGAAAGGCCAATGGGTCTATCCCTCCCTAACGAGACTCTGTCTGTCTGGGGTGTAAATTACATGG CAGGAAGATGGGCCCTTAAGGGAGTGTGGGTCTGTCTCTCCCTTTTCCATCTTTTCCCTC TCTCGCTTTCTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC

WI-7619k	90 C G ---	---	ACAAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCC[C/G]CTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CTCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619j	206 T G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCT/GTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619i	106 C G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTAC ATGGCAGGAAGATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CTCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619h	150 T C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT TCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619g	228 A G ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTTCTTTCTTACACAGAAACAT/GC/CACATACCGAGAAACCTATTTC
WI-7619f	237 G C ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT CGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619e	99 C T ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG TGGCAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT TCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619d	189 T A ---	---	ACAAGGCGACTTGAAGAGGACGCGAGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACAAGAC AGAGAAGGGCCCAATGGGGTCATCCCTCCCTAACGAGACTCTGTGCTGGGGTGCTAATTACATGG CAGGAAGAAATGGGGCTCTAAGGGGAGTGGGGTCTGTCTCCCTTTTTCATCTTTTCCCTCTCT TCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTATTTC

WI-7619c	90 C G ---			ACAAGCGGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAAGAC AGAGAAGGGCCAAATGGGTATCC[C]/GJCTCCCTAACGAGACTCTCTGCTGGGGGTGCTAAATTAC ATGGCAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCCCTTTTCCATCTTTTCCCT CTCTCGCTTTCTTTCTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619b	206 T G ---			ACAAGCGGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAAGAC AGAGAAGGGCCAAATGGGTATCCCTCCCTAACGAGACTCTCTGCTGGGGGTGCTAAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT CGCT[G]/TCTTTCTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7619	189 T A ---			ACAAGCGGACTTGAAGAGGACGCGGCTTCCAGAGGACAAACCCCAATACAGGAGAACGACACAAGAC AGAGAAGGGCCAAATGGGTATCCCTCCCTAACGAGACTCTCTGCTGGGGGTGCTAAATTACATGG CAGGAAGAATGGGGCTCTAAGGGGAGTGGGGTCTCTCTCCCTTTTCCATCTTTTCCCTCTCT TCTCGCTTTCTTTCTACACAGAAACATACACATACCGAGAAACCTATTTC
WI-7626d	105 A G ---			CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGATTTAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGCTGGC[G]/GJTTAAACCACATCATGACCACAAATGTG CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGATTTATAGTAACCATTTTCTTTGGACTGTTCA
WI-7626c	155 C T ---			CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGATTTAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGCTGGCATTAAACCACATCATGACCACAAATGTGCCA TACTAATGATGAGCATTTAG[C]/TJACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGATTTATAGTAACCATTTTCTTTGGACTGTTCA
WI-7626b	28 T A ---			CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGATTTAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGCTGGCATTAAACCACATCATGACCACAAATGTGCCA CCATACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGATTTATAGTAACCATTTTCTTTGGACTGTTCA
WI-7626	144 T C ---			CCTTGTATGTGGAAGTATACCTGGCTTTTAAAATATATGATTTAAAACAAAAAGCAACAGTAA TCTATGTGTTCTGTAAACAAATGGGATCTGCTGGCATTAAACCACATCATGACCACAAATGTGCCA TACTAATGATGAGCATTTAGCACAAATTTGAGACTGAAATTTAGTACACTATGTTCTAGGTCAGT CTAACAGTTTGCCTGCTGATTTATAGTAACCATTTTCTTTGGACTGTTCA
WI-7689c	134 A G ---			TCCCAATACCGCTGATTCAGGGTCTCTGCTGCCGCCACCCAGATGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTCTAGGACGCCACCCAGCAAAAGGTTGTTCTCTAA[A] [G]TAAAGGGCAGAGTCACACTGGGGCAGCTGTATACAAATTTGCAGACTGTGTAAAAAGAGACTTAAT GATAATATTGGTGGCGCCACAAATAAATGGATTATTAGAAATTCATATGAC

WI-7689b	134	A G ---				TCCATAACCGCTGATCTCAGGGTCTCTGCTGCCGCCACCCAGATGGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTCTAGGACGCCACCCAGCAAAAGGTTGTTCTCTAAAJA /GJTAAGGGCAGAGTCACACTGGGGCAGCTGATACAAAATTCAGACTGTGTAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATATGAC
WI-7689	121	G A ---				TCCATAACCGCTGATCTCAGGGTCTCTGCTGCCGCCACCCAGATGGGGGAAAGCACAGGTGGGC TTCCAGTGGCTGCTGCCAGGCCAGACCTCTAGGACGCCACCCAGCAAAAGGTTGTTCTCTAA AATAAGGCAGAGTCACACTGGGGCAGCTGATACAAAATTCAGACTGTGTAAAAGAGAGCTTAAT GATAATATTGTGGTGCCACAAATAAAATGGATTATTAGAAATTCATATGAC
WI-7690	45	G A ---				TGGAGAACATTCAATCTGCCGTCACATTATCATCAATGAAGATTAG/ACACTGAGATCCAGAGAGG CTGGATGACTTGTCAAGTTCAACAGCATGGTAGTGGCAAGAGAGTCCAGAGTCTGGCCCTTGAT GCCAGCTCAGTCCACAAAGCTCAGTAGGAGGATGTTCCAGTGATGAGGCCACCCAGGAAGCAC AGGTCCAAAGGCTGGTCCACACTTATCAGCAGCAACAACGTCTCAGTTTCATCC
WI-7703b	164	T C ---				ACAGAAAAGTTGAATTTTACATGGCTGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAAACAAGTCAGTCATTGATATGATCAAA TGCTATAAACCAAACTGATGAAGTAAAT/CJGGTCTCTCAGTTGTTTATTTAACCTCTAAATTC TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7703	156	T C ---				ACAGAAAAGTTGAATTTTACATGGCTGAGCTAGAATTTGATATGTGAACAGTTGTGTTGAAGCAC AGTGATCAAGTTATTTTAAATTTGGTTTTCACATTGGAAACAAGTCAGTCATTGATATGATCAAA TGCTATAAACCAAACTGATGAAGTAAAT/CJAAAGTAAATGGTCTCTCAGTTGTTTATTTAACCTCTAAATTC TTCAATTTAGGGGTAGCATTTGTGTTGAAGAGGTTTAAAGCTTCCATTGT
WI-7743e	106	C A ---				TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGCTACCTCAGTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAAGCCAGCTCTCAGCC
WI-7743d	275	C T ---				TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT TACAGAAATCTGCTACCTCAGTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAAGCCAGCTCTCAGCCAACG
WI-7743e	106	C A ---				TTAAATGAGTGTGTTTGTACCCGTTGGGATTGGGGAAGACTGTGGCTGCTGGCAGTGGAGCCAAGG GTTACAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGAC/CJ/CCAGGAGTCCCTGGTAATAAGTACT GTGTACAGAAATCTGCTACCTCAGTGGGTCTGGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGA GAGGGGCAGAACAGCCGCTCTGTCTGCCAGCCAGCAAGCCAGCTCTCAGCC

WI-7743d	275 C T ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743e	106 C A ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743d	275 C T ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAG GAGGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743c	106 C A ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAG GAGGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743b	275 C T ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743	106 C A ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG GTGTACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAG GAGGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCC
WI-7743	275 C T ---			TTAAATGAGTGTGTTTGTCACCGTTGGGGATTGGGGAAGACTGTGGCTGCTGGCAGCTTGGAGCCAAAGG GTTTCAGAGACTCAGGGCCCCAGCACTAAAGCAGTGGACCCAGGAGTCCCTGGTAATAAGTACTGTG TACAGAAATCTGCTACCTCACTGGGTCTCTGGGCTCGGAGCCTCATCCGAGGCAGGGTCAGGAGAG GGGCAGAACAGCCGCTCTGCTGCCAGCCAGCAGCCAGCTCTCAGCCAAACG
WI-7743	144 A G ---			TGACATTTATTCAAAGTTAAAGCAAACACTTACAGAAATTATGAAGAGGTATCTGTTTAAACATTTCC TCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAAGGAACAGAGTGAGAGACATCATCAAGTG GAGAGAAATCAGTAGTTAACTGCATTAATTTTAAACAGAAATTAAGTAGATTTTAAATTTAA GATAAAATGTGTAATTTTGTATATTTTCCCATTTGGAGTGTAACTGACTGCC

WI-7765b	126 G C ---	---	---	ACAGGGCCTTTGGCAGGTGCAGCCCCACTGCCTTTGACCTGCCTCCCTTCATGCATGGAATTCCTT TCATCTGGAACCATCAAAACACCCTACACTGGACTTGCAAAAGGGTCAGTATGG[G/C]TAGG GAAAACATTCATCCTTTGAGTCAAAAATCTCAATCTCCCTATCTTTGCCACCCCTCATGCTGTGTG ACTCAAACCAAATCACTGAACCTTTGCTGAGCCTGTAAATAAAAGGTCGGA
WI-7773b	237 C G ---	---	---	TTAATTTACTGATTCAGCAAGACCAATCATTTGATCAGATTAATTTTAAAGTTTATCCGTAGTTTT GATAAAGATTTTCCTATTCTTGGTTCTGCAGAGAACCTATAAGTGTCTACTTTGCCATTAAAGCA GACTAGGTTTCATGCTTTTACCCCTTNNNNNNNNNTGTAAAGTCTAGTTACCTACTTTTCTTT GATTTTCGACGTTTGACTAGCCATCTCAAGCA[C/G]TTTCGACGTTTGA TGCAACCTCTTTTCGTGATGGCAGCCTGCTGTCAGCACTCCAGTAGCGAGAGCGCACCCAGAAT CAGATCCCAGCTTCGGCATTTGATCAGACCAACAGTGTCTTTCCGGGGAGGAAACACTTTTAA TTACCCCTTTTGAGGCACCACTTTAATCTGTTT/CJATACCTTGCTTATTAAATGAGCGACTTAAA ATGATTGAAAATAATGCTGTCCTTTAGTAGCAAGTAAATGTCCTTGCT
WI-7774b	170 T C ---	---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGCTGTAAATCTGTAATGCAATGGAATAAACTGTCTCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTAATANNNNNNNNNGCCAGGTAATCCAAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGATTTATTTGTAAATGATCTTGGTCTGC
WI-7785c	165 G ---	---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGCTGTAAATCTGTAATGCAATGGAATAAACTGTCTCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTAATANNNNNNNNNGCCAGGTAATCCAAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGATTTATTTGTAAATGATCTTGGTCTGC
WI-7785b	165 G ---	---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGCTGTAAATCTGTAATGCAATGGAATAAACTGTCTCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTAATANNNNNNNNNGCCAGGTAATCCAAATTATTATTCACATTTACCA TAATTTATTTTGCCATTGATGATTTATTTGTAAATGATCTTGGTCTGC
WI-7785	156 T ---	---	---	GCAGAGACCTTCCAAGGACATATTGCAGGATTCTGTAATAGTGAACATATGGAAGTATTAGAAATA TTTATTGCTGTAAATCTGTAATGCAATGGAATAAACTGTCTCCCCATTGCTCTATGAAACTGC ACATTGGTCATTGTAATANN- /TJNNNNNNNGCCAGGCTAATCCAAATTATTATTCACATTTACCATAATTTATTTTGTCCTTGA TGATTTATTTGTAAATGTATCTTGGTG
WI-7789c	84 G A ---	---	---	TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGCACCATCTTACAGAGACTCTCCC TGACGGTGGAAATTTAA[G/A]TTTAGGGTCCCTAAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGAAGTGGGGCTGTCTCAGACGACTAGCCAGGACCATCT TCTCCCCCTCATCCAACTCCGAAAGTCTGAATCTCCCAAGGAGGGCACCATCTTACAGAGACTCTCCC TGACGGTGGAAATTTAA[G/A]TTTAGGGTCCCTAAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGTCCCTTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGAAGTGGGGCTGTCTCAGACGACTAGCCAGGACCATCT GOCCTCCTGGTGAAGTGGGGCTGTCTCAGACGACTAGCCAGGACCATCT
WI-7789b	84 G A ---	---	---	

WI-7789	73 GA ---			TCTCCCTCATCCAACTCGAAAGTCTGAATCTCCCAAGGAGGGACCACCATCTTACAGAGACTCTCCC TGACG[G/A]TGGAAATTAAGTTTAGGGTCCCTAAAGCATTTGACACACAGTTGTTGAATGACTGAC CCAAATGTGAATGAAGCTAATGTGAATGTGAGTGAAGCTCCCTCAGGCCCGCTGCCCTAGGATAT GCCCTCCTGGTGACTCGGGGCTGTCTCAGACGACTAGCCAGGACCCATCT
WI-7790b	190 CT ---			AATTGTCAGTCACTTCTCAAAACCTTACAGTCTCTCCCTAAGGTTACTCTTCATGAGATTCATCCATT TACTAATACTGTAATTTTGGTGACTAGGCTTGCCCTATGTGCTTATGTGAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACITTT AAGTACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7790	190 CT ---			AATTGTCAGTCACTTCTCAAAACCTTACAGTCTCTCCCTAAGGTTACTCTTCATGAGATTCATCCATT TACTAATACTGTAATTTTGGTGACTAGGCTTGCCCTATGTGCTTATGTGAGCTTTTACTTTTATGG TGTGATTAATGGTGATCAAGGTAGGAAAGTTGTGTTCTATTTCTTGAACCTC[G/T]TCTATACITTT AAGTACTCTATTTTAAACACTATCTGCAAACTCAGGACACTTTAAG
WI-7795b	81 CA ---			CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTCTCAT CTTGATGATGAT[C/A]GTCATCATCAAGAAATTAATGATTAATAAGCATGCCCTTCTCTCTCTCTCT TAATAAGCCCCACATAAATGATCTTTTCTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTCTAAATTTGAAATATAATCTG
WI-7795	81 CA ---			CAGATGTTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTCTCTCAT CTTGATGATGAT[C/A]GTCATCATCAAGAAATTAATGATTAATAAGCATGCCCTTCTCTCTCTCTCT TAATAAGCCCCACATAAATGATCTTTTCTCCAGAAAAATCTCCTTGAGGAAAAATGTCCAAAA TAAGATGAATCACTTAATACCGTATCTCTAAATTTGAAATATAATCTG
WI-7814c	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCC[G/A]TTTCATTTAGTCATGTGACCACCTC TGCTTGTTGTTCCACAGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAAATCTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA
WI-7814b	41 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCC[G/A]TTTCATTTAGTCATGTGACCACCTC TGCTTGTTGTTCCACAGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAAATCTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA
WI-7814	28 GA ---			TTCTCTCATTTTATCCCTCACCTGTAGCATGCCAGTCCCGTTTCATTTAGTCATGTGACCACCTC TGCTTGTTGTTCCACAGCCTGCAAGTTCAGTCCAGGATGCTAACATCTAAAAATAGACTTAAATCTC ATTGCTTACAAGCCTAAGAAATCTTTAGAGAAGTATACATAAGTTAGGATAAAATAATGGGATTTTC TTTTCTTTCTCTGGTAATATTGACTTGTATATTTAAGAAATAACAGAA

WI-7830d	150	C T	---			GCAGAAATAGTCACTCACTCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGCTGCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCAATCACAATTTCTATGCCAAACAGGAACG ATCCATAACTTTAGT[C/T]TAATGTACACATTCATTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGTGTCGCACTTTTACTTTTTTGCAGTGGA
WI-7830c	54	G A	---			GCAGAAATAGTCACTCACTCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGCTGCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCAATCACAATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGTGTCGCACTTTTACTTTTTTGCAGTGGA
WI-7830b	134	G A	---			GCAGAAATAGTCACTCACTCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGCTGCTGATGA TGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCAATCACAATTTCTATGCCAAACAGGAAC G/AJATCCATAACTTTAGTCTTAATGTACACATTCGATTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGTGTCGCACTTTTACTTTTTTGCAGTGGA
WI-7830	44	A G	---			GCAGAAATAGTCACTCACTCCACTCCACATAAGGGGTTTAGTAAGAGAAGTCTGCTGCTGATGA TGATGGATAGGGGGCAAAATCTTTTCCCTTTCTGTTAATAGTCAATCACAATTTCTATGCCAAACAGGA ACGATCCATAACTTTAGTCTTAATGTACACATTCGATTTGATAAAATTAATTTGTTGTTCCCTTTG AGTTGATCGTTGTTGTTTGTGTCGCACTTTTACTTTTTTGCAGTGGA
WI-7865e	25	C T	---			CCACTTCCTATCTGATTTTCCAGIC/TJAAATGAGCAGGCAATCTAGTCTCCACAAAACATCTA GCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG GGTATGCTACTCATAAGATTTGAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865d	191	C T	---			CCACTTCCTATCTGATTTTCCAGCAGGCAATCTAGTCTCCACAAAACATCTAGCC ATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG ATGCTACTCATAAGATTTGAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865c	25	C T	---			CCACTTCCTATCTGATTTTCCAGCAGGCAATCTAGTCTCCACAAAACATCTA GCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG GGTATGCTACTCATAAGATTTGAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865b	191	C T	---			CCACTTCCTATCTGATTTTCCAGCAGGCAATCTAGTCTCCACAAAACATCTAGCC ATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAGCTAGCTATTAGAGGGTGGTTGG ATGCTACTCATAAGATTTGAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAAC CTGAAATCACATGCCTATGTAAAGGAAAGTGCTATTACCCAGTAAACCCAAA

WI-7865	25 C	T ---	---	CCACTTCCTATCTGATTTTCCAG[C/T]AAATGAGCGCAGGCAATTCCTAGTCTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGGGGTATGCTACTCATAAGATTTCCAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTACGAAAAACCTGAATACATGCCTATGTAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7865	191 C	T ---	---	CCACTTCCTATCTGATTTTCCAGCAAAATGAGGCAGGCAATTCCTAGTCTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTTACCTATACAAACAAGCTAGCTATTAGAGGGTGGTGGGGTATGCTACTCATAAGATTTCCAGGGTGTCTTCCAACTGAAATCTCAATGTTCTCAGTAC[C/T]GAAAAAACCTGAATACATGCCTATGTAGGAAAGTGCTATTACCCAGTAAACCCAAA
WI-7867c	92 A C	---	---	TTCAAAACACCTGTCTTCCACCTCCACCACCTGTGTGCAATCACTTCACCCCTCAGCCTCAGCTAGTCCCTCTAACCAATTACCCTGTCAAGAGG[C/A]GAGTGCAGCTCAGGTGGATTAAATGTGGGTTTAAATATGGCCTGTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTCTTGTCTATAAATCTATGTCTATATGCTATGCTTAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7867b	92 A C	---	---	TTCAAAACACCTGTCTTCCACCTCCACCACCTGTGTGCAATCACTTCACCCCTCAGCCTCAGCTAGTCCCTCTAACCAATTACCCTGTCAAGAGG[C/A]GAGTGCAGCTCAGGTGGATTAAATGTGGGTTTAAATATGGCCTGTGAGTTTAAATGTTTAAATGTTGATTTCTTTAAGTAACCATTTCTGTCTTGTCTATAAATCTATGTCTATATGCTATGCTTAATTTGGATGATGAAGGCAACTTGGATTTAAGG
WI-7868c	173 C T	---	---	TTGATCGATCTTTTCCACCCCTGTCACTCAACGTGGTGCCCTAGAACAAAGAGGCTTAAACCCGGGCTTTCACCCAACCTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAATCATTTAATATTTCCCTGTCTTACCCTATTTCAAGCA[C/T]TAGAGGCCAGAAAATGGGCAAAATTATCACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTTCAATGCCTAGAT
WI-7868b	173 C T	---	---	TTGATCGATCTTTTCCACCCCTGTCACTCAACGTGGTGCCCTAGAACAAAGAGGCTTAAACCCGGGCTTTCACCCAACCTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAATCATTTAATATTTCCCTGTCTTACCCTATTTCAAGCA[C/T]TAGAGGCCAGAAAATGGGCAAAATTATCACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTTCAATGCCTAGAT
WI-7868	66 T C	---	---	TTGATCGATCTTTTCCACCCCTGTCACTCAACGTGGTGCCCTAGAACAAAGAGGCTTAAACCCGGGCTTT[C/T]CACCCCAACCTGCTCCCTCTGATCCTCCATCAGGGCCAGATCTCCACGTCTCCATCTCAGTACACAATCATTTTAAATATTTCCCTGTCTTACCCTATTTCAAGCAACTAGAGGCCAGAAAATGGGCAAAATTATCACTAACAGGCTTTTGACTCAGGTTCCAGTAGTTTCAATGCCTAGAT
WI-7870b	85 T C	---	---	ATCTTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTACTCTGCAGTATTAGAAGGGGTGGGGTGGCGGGAATCC[C/T]ATTATTCAGACTCTGTAAATGAATATAAATGTTTACTCAGAGGAGCTGCAAAATGGCTGCAAAATGAAATCCCAATGAGCACTAGAAATATTTAAACATCATCTACTGCCCATCTTTATCATGAAGCACATCAATACAAGCTGTAGACCACCTAATATCAATTTG

WI-7870	76 C T ---	---	ATCTTTGCTCCCTGCAAGAAATCAGCCATAAGAAAGCACTATTAACTCTGCAAGTATTAGAAAGGG GTGGGGTGG[C/T]GGGAATCCTATTATCAGACTCTGTAAATGAATATAATGTTTACTCAGAGGAG CTGCAAAATTGCTGCAAAATGAATCCAATCAGCAGTAAATTTAAACATCATTTACTGCCATC TTTATCATGAAGCACATCAATTACAAGCTGTAGACCACCTAATATCAATTG
WI-7889c	54 C ---	---	TTAGGTCATGCCCCACTCCCCAGGAGCAGCTGGCACTACAGCCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGAGGACTCTAGCTCATGAGTGGAAAGTCACCTACAGGACTGGCCGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAAGGACATGGGAATGAATTGAATGGGCGCTGGACACC TACAGCAGCAGCATGTCCCTCCAAGGCTGCTTCTCCAGAGCACAAAG
WI-7889b	54 C ---	---	TTAGGTCATGCCCCACTCCCCAGGAGCAGCTGGCACTACAGCCCTGGGGGGCGCTCTCCCCCTG CAGCCGTGAGGACTCTAGCTCATGAGTGGAAAGTCACCTACAGGACTGGCCGGCCAGGGCCTCT GGCTTCCCTGCCCAATCCTCCCTGGAGAAAGGACATGGGAATGAATTGAATGGGCGCTGGACACC TACAGCAGCAGCATGTCCCTCCAAGGCTGCTTCTCCAGAGCACAAAG
WI-7894c	142 A G ---	---	AGCCACCCCCAAATATACTGTTATCCAGAGCTGTATGCTCTGTTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGCTCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAATTTGCATTTTTTATTGAAATTAATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTTAACCGCTATAGAGTATCCATA
WI-7894b	142 A G ---	---	AGCCACCCCCAAATATACTGTTATCCAGAGCTGTATGCTCTGTTTCCATACATGTTTTGTACT TTTACTATATCTACATACATCAATTAACCTTATGCTCTATTGTTTGTGAATTTATATTGCGTATAC ATTATC[A/G]TATGTAAATTTGCATTTTTTATTGAAATTAATGTTCTTGAGATTTATCCACATTG AAACATGGAGCTCTAAATCGTTAATTTTAACCGCTATAGAGTATCCATA
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900d	128 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900e	84 C T ---	---	GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATG[C/T]CCTGCCATTGAACAGTGATTAAAGTTGATCAAGCCATGGTGACACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATCTCTCAGATTTGAACCCAGTGAAA TATGATGTATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC

WI-7900d	128 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900e	84 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900d	128 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900c	84 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900b	128 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7900	84 C T ---				GCTCACTGTGACCCATCCTTACTCTACTTGGCCAGGCCACAGTAAACAAGTGACCTTCAGAGCAGCT GCCACAACCTGGCCATGCCCTGCCATTGAAACACAGTGATTAAAGTTTGATCAAGCCATGGTGA[C/T]ACA AAATGCATTGATCATGAATAGGAGCCCATGCTAGAAGTACATTCTCTCAGATTGAACCCAGTGAAA TATGATGTAATTTCTGAGCTAAACTCAACTATAGAAGACATTTAAAGAAATC
WI-7901c	33 C T ---				AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTAAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTAAACAACAACTCCAGGCCCTTGGTTGCGGGTCGCTGGGTTATGGGCGAGCGCCGTGGTCGT CACACAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT
WI-7901b	33 C T ---				AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTAAACAG ATTGTTTCATCATTTGCATCTATTTCCATATAGTCATCAAGAGACCATTTTATAAAACATGGTAAGAC CCTTTTAAACAACAACTCCAGGCCCTTGGTTGCGGGTCGCTGGGTTATGGGCGAGCGCCGTGGTCGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT

WI-7901	33 C T	---	---	---	AGACTTAGGTACAAATTGCTCCCTTTTATATA[C/T]AGACACACACAGGACACATATATTTAAACAG ATTGTTTCATCATTCATCTATTTTCCATATAGTCATCAAGAGACCATTTTATAAACACATGGTAAGAC CCTTTTAAACAAACTCCAGGCCCTGGTTGCGGGTCGCTGGTTATTGGGCGAGCGCGCTGGTCTGT CACTCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCT
WI-7901	271 T G	---	---	---	AGACTTAGGTACAAATTGCTCCCTTTTATATACAGACACACAGGACACATATATTTAAACAGATT GTTTCATCATTCATCTATTTTCCATATAGTCATCAAGAGACCATTTTATAAACACATGGTAAGACCCT TTTTAAACAAACTCCAGGCCCTGGTTGCGGGTCGCTGGTTATTGGGCGAGCGCGCTGGTCTGCAC TCAGTCGCTCTGCATGCTCTCTGTCATACAGACAGGTAACCTAGTTCTGTGT
WI-7926c	150 C A	---	---	---	CATTCCGCATCTGTCAACGAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAAGATGATGCAC TTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACTTA[C/A]ATTTTAACTCTTGAGGAGAAAAGCAACTGTATAAATGAATGTA GAGTGACTTCTGCAATATTTGCAACCTATATCAGAGAATTACACTGIGGGAA
WI-7926b	28 A T	---	---	---	CATTCCGCATCTGTCAACGAGGACAGAA[A/T]GTCATGGACAAGGGATGAGCTTTACAAAAGATGATGC ACTTTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTC ATTTACAATGCAATACTTACATTTTAACTCTTGAGGAGAAAAGCAACTGTATAAATGAATGTA GAGTGACTTCTGCAATATTTGCAACCTATATCAGAGAATTACACTGIGGGAA
WI-7926	150 C A	---	---	---	CATTCCGCATCTGTCAACGAGGACAGAAAGCATGGACAAGGGATGAGCTTTACAAAAGATGATGCAC TTGGAGATCAGAAAATTCATATTTAAGCAAAGTGATACAAACACAGTGATTTGGGAATGCCCTTCATT TACAATGCAATACTTA[C/A]ATTTTAACTCTTGAGGAGAAAAGCAACTGTATAAATGAATGTA GAGTGACTTCTGCAATATTTGCAACCTATATCAGAGAATTACACTGIGGGAA
WI-7947b	203 G T	---	---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCATAAGCAGCCAGACCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACACAGCCAGGCCACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTTCGAAGCCACA GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGCTGCCACCTG
WI-7947	203 G T	---	---	---	AAGAGCCAGCAGGTCAAAAAGGCCAACACACACCATAAGCAGCCAGACCCACAAAGGCCAGGTCCTGT GCTATCACAGGGTCACCTCTTTACAGTTAGAAACACACAGCCAGGCCAGGACAGAAATCCCATCCCTTTCC TGAGTCATGGCCTCAAAAATCAGGGCCACCATTTGCTCAATTCAAATCCATAGATTTTCGAAGCCACA GA[G/T]TCTCTCCCTGGAGCAGCAGACTATGGCAGCCAGTGCTGCCACCTG
WI-7963b	145 T C	---	---	---	CATGTGCTGCATGAAGAGCTAATTTAAAAGCAAGTAAGACTAATTTAAAATAAAAAATGCC ACAAATTCATTTCTCCTTAAGTATTACAATGGAGTTTATCTCTGCCTAAAAGTGGAAGAAAT TGAGTGAATGA[T/C]AATTTTGTAAATTTAGGATAAGATCCAAGTATTTTCCCAACTCTTGTTCCTCC CCATAAAGTTAGGCATGAGGAGGAGCACTCATTAAGGCGAGAAGACGGGAAAA

[illegible]

WI-8021b	57	C T	---	---	ACAACTCTCAGAAAGGACTGTGCAAGTCAATGAGTCGCTTGTGAATCTCATCTGGAAAC/C/TGATCCC ACGCTTTAGAACCTTCAACCAAGGAGTTTTCTTGTAGTGATCTCAAAGTCTGGTAGGCATTGGA ACTGGTCCCTTTCAGCTTGTAGATCTTTCTTTTGGCCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTTACGTTGCGGCTTGTAGGGGTGATTGGAATCGGTGAATTGCCA
WI-8021	57	C T	---	---	ACAACTCTCAGAAAGGACTGTGCAAGTCAATGAGTCGCTTGTGAATCTCATCTGGAAAC/C/TGATCCC ACGCTTTAGAACCTTCAACCAAGGAGTTTTCTTGTAGTGATCTCAAAGTCTGGTAGGCATTGGA ACTGGTCCCTTTCAGCTTGTAGATCTTTCTTTTGGCCCTCTTATCAAGTCAGCACACACCTTTTCCAAG GATTTTACGTTGCGGCTTGTAGGGGTGATTGGAATCGGTGAATTGCCA
WI-8024c	206	A G	---	---	CTGAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGGAGGACAGGGCAGAGGGATCCAGTGGCACTTCCATGGGAAGACAGAGAGAGT GGGCCCCAGAGATGGAAGGACCCAGTGTATCATCAACAAACACCATTTAGCCGCTCTAGCCTCTAA TTCCC/A/GCTCTAGAACAGCTGGCCCTGGTGTGTCAGTACACAAAGGAAGAGC
WI-8024b	206	A G	---	---	CTGAAATTTACTATGCTCTCCACAACAAGAGCTCCCATTTCCACAGACACAGTCAATGTCAGTCA GCTTGATTTAGGAGGACAGGGCAGAGGGATCCAGTGGCACTTCCATGGGAAGACAGAGAGAGT GGGCCCCAGAGATGGAAGGACCCAGTGTATCATCAACAAACACCATTTAGCCGCTCTAGCCTCTAA TTCCC/A/GCTCTAGAACAGCTGGCCCTGGTGTGTCAGTACACAAAGGAAGAGC
WI-8077	167	A G	---	---	GAATGAGCCTTCTAGCGCCGAGGGACCTGCTGCTGTGTTGGCTGCACATGCATCTATGGAATGC TTTTTGCCAAAGCGGGGCACTGAGGACTAAGCTCTGANNNNNNNATCGCCCAACTCCTTTCT AAGGAGTCTGGGTGTCATGCCCTACAACCC/A/GTAAATCTCATCAGATGGATTTTATTAACGTT GTGTATTGTGACTTACTTTCCAATCTGACTCTGGCATAACAAGGGAATA
WI-8118f	114	G C	---	---	TCTAGGTTTAAATCAAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACTCCCTTGTAAAGGAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTG/C/JTTTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCTATTCCTTCCCT AAAAATCAGACTCATTGTGACCAAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118e	40	A G	---	---	TCTAGGTTTAAATCAAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACTCCCTTGTAAAGGAGCTAT TATGTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCTATTCCTTCCCT AAAAATCAGACTCATTGTGACCAAGTAGTCTTGAGGACTCAAGCTGAATGA
WI-8118d	118	T G	---	---	TCTAGGTTTAAATCAAAAGCAATTTGCANTTTGGATTTTGGAAATGACCACTCCCTTGTAAAGGAGCTAT GTACTTCATGCTGTGGAAACTGGCAAAATACAGAATGAGCTTGTGTTTCTTAGCCTTGAAGA TGACCAGGTAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCTATTCCTTCCCT AAAAATCAGACTCATTGTGACCAAGTAGTCTTGAGGACTCAAGCTGAATGA

WI-8118c	44	C T	---	---	---	<p>TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGAATGATC/CACCTCCCTTGCTAAGGAAGC TATGTACTTCATGCTGTGGAACTGGCAATACAGATGTAGCTTGTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCCTATTCTCTCT AAAAATCAGACTCATTTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA</p>
WI-8118b	88	T C	---	---	---	<p>TCTAGGTTTAATCAAAGCAATTTGCANTTTGGATTTTGAATGACCACTCCCTTGCTAAGGAAGCTAT GTACTTCATGCTGTGGAAC/CJGGCAATACAGATGTAGCTTGTGTTTCTTAGCCCTTGAAGA TGACCAGGTAGAGAGACAGAGTGAGACCAACAGTTTTCTGATTTCCCTGCTCCTCCTATTCTCTCT AAAAATCAGACTCATTTGTGACCAGTAGTCTTGAGGACTCAAGCTGAATGA</p>
WI-8171d	299	C T	---	---	---	<p>TTTTCTCTCTCCGGGGACCAAGGTACCTTCTGGGCATACAACATGGCAGAGGGCCTCGGGAAG AGGGGTAGGAGACCGAGCAGCATCTCTGTAGAGGAAGACAGGAAGGAGACCCTCTTGGCACACA TTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGAGAGGTCCCTGTTACTTAAGAGAAGGC ACCAGTGGGCAAGAGCACCAATGAAGAGGATGATATAAAACAATCACGGCA</p>
WI-8171c	46	A G	---	---	---	<p>TTTTCTCTCTCCGGGGACCAAGGTACCTTCTGGGCATACAAC/CJGGCAGCAGGGCCTCGGG AAGAGGGGTAGGAGACCGAGCAGCATCTCTGTAGAGGAAGACAGGAAGGAGACCCTCTTGGCAC ACATTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGAGAGGTCCCTGTTACTTAAGAGAA GGCACCAAGTGGGCAAGAGCACCAATGAAGAGGATGATATAAAACAATCAC</p>
WI-8171a	46	A G	---	---	---	<p>TTTTCTCTCTCCGGGGACCAAGGTACCTTCTGGGCATACAAC/CJGGCAGCAGGGCCTCGGG AAGAGGGGTAGGAGACCGAGCAGCATCTCTGTAGAGGAAGACAGGAAGGAGACCCTCTTGGCAC ACATTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGAGAGGTCCCTGTTACTTAAGAGAA GGCACCAAGTGGGCAAGAGCACCAATGAAGAGGATGATATAAAACAATCAC</p>
WI-8171b	298	T C	---	---	---	<p>TTTTCTCTCTCCGGGGACCAAGGTACCTTCTGGGCATACAACATGGCAGAGGGCCTCGGGAAG AGGGGTAGGAGACCGAGCAGCATCTCTGTAGAGGAAGACAGGAAGGAGACCCTCTTGGCACACA TTTATGGAGGGTTGTCCTGAAGAGAAGGGCAGGTGGGAGAGGTCCCTGTTACTTAAGAGAAGGC ACCAGTGGGCAAGAGCACCAATGAAGAGGATGATATAAAACAATCACGGCA</p>
WI-8314b	85	G C	---	---	---	<p>GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTCGAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTCTAAGGG/CJAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAAATAGAATTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAAACCACT</p>
WI-8314	78	C G	---	---	---	<p>GAGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTCGAATTGAGCACATTTCTTGGGTCTGT TTCTCTATCTCTAAGGG/CJTTAAGGGGAGTCTCAAAACCCAGCTCAAAATACGACACTAACATGATGAACAT GCATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAAATAGAATTTC TGTGATGATGAAAAGATTCTACTTCTGACCTATTCAATAGGGGTAAACCACT</p>

WI-8321	178	G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTATACAGTCTCTGAGAAG TCCCTTAGATAAATAGCTGCCACTTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATTTCTTA TTTGTCTATGGTCTAGTTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8321	178	G A ---	---	TTTTAAATATGCCCGTTTAGAGCAGACAGTCACAATAAAAGTTAAAAAGTTACAATGTGTCCAG TGATATACCCAGGNAATCCATTCTTGGTACTTTTCAAGAGCTGCTGTATACAGTCTCTGAGAAG TCCCTTAGATAAATAGCTGCCACTTTTCAGTATGGTTCAGAAATG/AJAGTATCTTAGTATTTCTTA TTTGTCTATGGTCTAGTTTATCAACCTACTTTATTAGCTGAACGTGTGGC
WI-8332b	123	A C ---	---	TATGTACTACTTTTCAGTTACCCCGTGCCTCCAGAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTCCCTGTGCAGCCCTTAGA/AJ/CJACTAAGTAG CAGTACTGTTGGTGTGTTGTTTCTTCCCGAGCAATGCCACTGCAGCTACTTAGTAACAACACTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8332	114	A C ---	---	TATGTACTACTTTTCAGTTACCCCGTGCCTCCAGAATCGCATGTTGCTCCACCTGGGGCGGATATA AATTACCTCTAGATTGTCCAAAGCCAGTCTTTCCCTCCCTGTGCAGCCCTTAGA/AJ/CJACTAAGTAG CAGTACTGTTGGTGTGTTGTTTCTTCCCGAGCAATGCCACTGCAGCTACTTAGTAACAACACTAG AGGTGGAGGGTNTCCGGGAAGCAGTTAGATGAGTTAAGTGTGATGCACA
WI-8378b	311	T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGAGGCCCTCAGGAAGCTTATAATCATGGCAGAAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGGAGAAAGTCTACACACTTTT AAACAACCAAGATCTCATGAGANTTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATAGA AACTGCCOCCATGATCCAATCACCTNTCACCGGCCCTCCTCCACACACGTGGGG
WI-8378	308	T C ---	---	TGCGGGCTTAACAGGAAGCATGACTGGAGGCCCTCAGGAAGCTTATAATCATGGCAGAAAGCGGAAGG GGAAGCAAGGACCTTCTTACATGGCAGCAGGAGAAAGAGAAAGGAGAAAGTCTACACACTTTT AAACAACCAAGATCTCATGAGANTTCCATCGGGAGACAGCACTAGGGGGATGGCACTAAACCATAGA AACTGCCOCCATGATCCAATCACCTNTCACCGGCCCTCCTCCACACACGTGGGG
WI-8426	184	T G ---	---	TTTAGCACATATTTAGCATTAAAGCCTCAAACGATACAGCAATATGTTACATTTCTTGTGAAAACAG TTGTTGTAGACTGTTAANNNNNNNNAATGTAACCTCCGACTTGTGCCTAATAGGATTTGACCNNTAA GAGGNTCTTTTGTGTGGANGGGTGGCTTTGCTTGAACCTCCATTCTGT/GJGCTTGTAGCTGGTG AGGCTGGGAGTATGGANGNCCCGGGCCCTTGGCNATNGNATTCAGTGAG
WI-8450h	61	C A ---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAAGCCCTTCTACATACACTC/AJCA TCTTCTCTATCTTAGTCCCAAGTTTATGTTTCAATCCCAATTAACCAATTCATGTTATTTTAAAGA AAAAACCTTCCCAGTTATGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGAATATGAGCAGTACAGAGTCTTAATGCAATTCAT

WI-8450g	55 T C	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTC/JACACTCCAT CTTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450f	108 T A	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTC/JTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450e	125 T C	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTC/JTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450d	125 T C	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTC/JTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450c	108 T A	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTCCATCTT CTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATTC/JACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450b	61 C A	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATACACTTC/JA TCTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8450a	55 T C	---	---	---	TTGAGCCTCCACAAATAATGCAACCAAGTTTACATTTTAAACAGCCCTTCTACATTC/JACACTCCAT CTTCTATCTTAGTTCCCAAGTTTGTAGTTTCAATCCCAATTATACCAATTCCATTGTTATTTTAAAGA AAAAACCTTCCAGTTATTGTCAGAAACTATGATTTAGCTTACCCCTCCACTACCCAGCAAACTAC AGAGAGGATGGGAGTGTAAATGAGCAGTACAGAGTCTTAATGCAATTTCAT
WI-8458b	60 A/G	---	---	---	CAAGGAAAGCTGTCAGTCTTCATAAACTTTCAAAGAGTTACAAAAATACGTTATTTTAA/JGCTA CAATTCAAGATTAGCATCCAAACCTACAAACATGATGTACATTTCGTACACACCATACAACTTCAC ACCTGGCTACAGCAATGTTGACTTACATCACCATTGTTTATACCTTGTAACCTTTTATTGTGCACAGT GACATCCATTCGCCAGACTTAATGTTTATAAAGCAGCTGAGCAGAGTTCTCA

WI-8461c	105 A T	---	---	CTTCTCCTCCAAAATCTACATGACTTGAAGACAAATATAACTACAACCTTACAAAATGCCAATTA GACAAAAGAGANTAAATGATATAATATAAATCATTTT[A/T]NNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAAACAATTAACAANTTTNTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAGAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461b	38 T C	---	---	CTTCTCCTCCAAAATCTACATGACTTGAAGACAA/[C/J]ATAACTACAACCTTACAAATGCCAA TTAGACAAAAGAGANTAAATGATATAATATAAATCATTTTNNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAAACAATTAACAANTTTNTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAGAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	38 T C	---	---	CTTCTCCTCCAAAATCTACATGACTTGAAGACAAATATAACTACAACCTTACAAAATGCCAATTA GACAAAAGAGANTAAATGATATAATATAAATCATTTT[A/T]NNNNNNNNCCCTTGCTTATTACAT TCAGGGAAGTCTAGCACCAGGACAGTNTTAAACAATTAACAANTTTNTAGAAAAGTTATTACTTA AAACATCTGTGTGACCTACATCAAGAAAANTCAAGGATTGCAAAAAGGGGG
WI-8461	105 A T	---	---	AATAACATGTTATGAACAAGCTGTTACAAGTAGTAGTAGTAAATTTTGATAAAAAAT TAAAAAGCAT[A/G]AACATGCATATAAAAAATAGATTATGTACAAAATACCAACAGTATTTACTTC TGCTCAGTAATTAATAATCTTCCCTTTGTTTTGTCCTTTTAAAAACATTATTTCTGAAAAAAA ATCAGAAAAACATGATCGTGGAGAGATTATTA
WI-9438	77 A G	---	---	ACAGAAAATGACCTTTATTTGTTGTTACTAAAGCCTGTTTAACTTTTGATACAAAAGTAACATTTTAGTA CAGAAAATCCCAGTCTGCAGCTCAGTACCTGT[C/T]GTGCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTAGAAAACAGCCCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAACCTTGACCTGTAAAAACAAAG
WI-9439b	101 C T	---	---	ACAGAAAATGACCTTTATTTGTTGTTACTAAAGCCTGTTTAACTTTTGATACAAAAGTAACATTTTAGTA CAGAAAAT[C/T]CCAGTCTGCAGCTCAGTACCTGTCTGTGCACACTGTACCATCTCAGTCCCACCTCT GCCTGTAACCTAGAAAACAGCCCCCTACCCCGAGGGTCTGCGAGTTAATACCTTGAGAAATAGTCTA CAGTTTTTCATAGTTTGTCTGAGCTAGAAAACCTTGACCTGTAAAAACAAAG
WI-9439a	76 C T	---	---	GAAAGCTTGATTAAAGGAGGNTTTATTTGATGTTAACTTACCATTCCATAGACTATAAAGANCATTA TAAAAAAAT[C/C]CCTCTAAAGNGACACATGCCCCAAATGACCAAGNCATGAAGCAACCTTTTAAAT TACTCATCTTTTCATATGTGTGTTTGTGNNCCCTACTNTTATCACTGTGCTCTCTGCTTGTCTACCTA TGNGAACTGCACACTATCTGTGGCAATATGT
WI-9446b	75 T C	---	---	

WI-9446	75	T C ---	---	GAAGGCTTGATTAAAGGGAGGNTTATTGATGTNAACTTACCATTCCATAGACTATAAAGANCATTA TAAAAAAAT/CJCCTCTAAAGNGACACATGCCCAAATGACCANGNCAATAAGCAAACTTTTAAAT TACTCATCTTTTCATATGTGTGTTTGNCCCTACTNTTATCAGTGTCTCTCTGCTTTTGTCTACCTA TGNGAAGCTGCACACTATCTGTGGCAATATTGT
WI-9497b	185	A --- ---	---	ATTAAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATACTTTTTTT GAGATAATTATCTAGATTCAGGCTTCTCTAGATGTAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCT GGAAATCTACATGGAAAAGCCCAACAAAATACTAAACCTTGACTAATGAAG
WI-9497	185	A --- ---	---	ATTAAATGTCAAGGTTTCATGTTTACATTTTCTTATATCAAGTACAATGGTATATATACTTTTTTT GAGATAATTATCTAGATTCAGGCTTCTCTAGATGTAGTNCCTAAAGCTTATAGTTTACATTGA TATCTAGACATATATCTTAAACAGTCTCCAAATTTNCTTTAATTAATCAAAAGTATGTTAATGTCACCT GGAAATCTACATGGAAAAGCCCAACAAAATACTAAACCTTGACTAATGAAG
WI-9523b	193	C A ---	---	GTGAAAAAGTTTTCTATTCTATTCATCATACAATAGATTGTGCTAAGGATCAATTTTGGAAAGATGTG CAGCATTCAGAAAGTTGTATCTCATCATGTCAGTCACTCAGCAGCATTTTATCTAAAGTACGTGCACA GACTCAGACAATTACAAAACATTTTCAGCCATGATCTATGGTGATTTTCCACACATTTGTA/C/AJAGTG AAAGCTCTTCAGCTTGGAAACAACCTTGTCAAGGCAGACTGCATGCACATATAT
WI-9523a	47	G A ---	---	GTGAAAAAGTTTTCTATTCTCCATCATACAATAGATTGTGCTAAGTATTTTGGAAAGAT GTGCAGCATTGAGAAAGTTGTATCTCATCATGTCAGTCACTCAGCAGCATTTTATCTAAAGTACGTGCA CAGACTCAGACAATTACAAACTATTTTCAGCCATGATCTATGGTGATTTTCCACACATTTGTACAGTGA AAGCTCTTCAGCTTGGAAACAACCTTGTCAAGGCAGACTGCATGCACATATAT
WI-9554	202	T C ---	---	AAAAACACAAGTTTTCATACATCACAAAAAACCTTCCATTATAACACAGAGTGATTATTACCAGAC AAGCATCAGTGATGTATCTGCTTTCAGTGTGTTATTGTACAATGCTGTAGATAATGCAGCCCCATG CAATACACCCCAAGAACACACTAGAGTCTCTACACCCAAAGTACAATATGATAAAGCAGCCCTCTGCAAGTG GT/C/GCTGGATACCACTAAGAAAGTCTACTGCAGCCATGTGGTTATGATTTT
WI-9555	97	G A ---	---	CCAAAAGCCAAACCATTCATATGTATGGATTTCATAAACATTTATTTGATCCTTTTTGAGGTAAGTAT AAATACCTTTACATGGCTAACCTTCTAAC/G/AJCTTGAAAAATCAATTTCAAGGGACTCTTTTAAATCA GTTAAATAATCTGCTTTAGAAGGCACAAATGATCATCTCAGATTAAATACAGGTAAGTATTTCAG GGNTAAAAATGGTACAAAAAAGGCTGTAACTCTTTTNTTTCACATTGATCACA
WI-9625b	172	A T ---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAA TAGCTACCATATATTTGTATCTNCTCTCTGGGAAAAACCTTTGGAAAAAACAACACGCACA TAAGTATCACTAACTGAGGGTTGTGGACAAGTTACTTCTATGTGTTTACCAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTTCATTTAAAAAACAACACTGCACAAATCTTTTC

WI-9625	172	A T	---	---	TTGAACATTTAATGAATGACAAAGACATAACATCCTCTGAAAAATCTGCAAGTAAATCAATCATTTT TAAACAAATAGCTACCATATATTTGTATCTNCTCCTTGGGAAAAAACTTTGGAAAAAAAACACGCACA TAAGTATCATAACTGAGGGTTGTGGACAAAGTTACTTCTATGTTTACCAAATTTTATATTGACATAA AGTAGCACAGACTAGTTATTTCATTTAAAAAACACACTGACAAATCTTTTC
WI-9647	144	C T	---	---	TTTTCTGAGATTCAAAGAGCTACATTTTGGTTAGTGTATGCTACTATACCTTTTTTCATCCTTTTCA ACATCTTTTGTACATTTTAGGIGATGCTCTTTGTAACAGTGTATGCTAGACCTAAAAATCCAAGCT TACAACTC/TGTCTCTTACCTGATACATTTATCCATTTACTTTTGGATTTTAAAAATGTTA ACTTAATACGTCCTTTACAGATGTCCTGCTTTTAGTTAATTGTTT
WI-9676n	114	A G	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCA/GATGATGGCTTTCTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT
WI-9676m	184	G T	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTTGGCTTTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT
WI-9676l	84	A C	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTTGGCTTTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT
WI-9676k	202	C T	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTTGGCTTTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA C/TTCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT
WI-9676j	92	C T	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTTGGCTTTCTGCC CCCATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT
WI-9676i	173	T C	---	---	GGCCACTGTCCAAAGTCTGTACAGTCTCCATATGGCAAGATGAAGAAAAATGGCAATCTTTTTTA GGGTACCAAGGNTCTGAGTTTGTACGGTCTTTATAATGCAGAGCAAGATGTTGGCTTTCTGCC ATTTACCTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAACTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGGAAATCCTATGCATTGTTGTTT

WI-9676h	134	C A	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ C/AJATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676g	202	C T	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ ATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGAGG C/TJAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676f	184	G T	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ ATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676e	173	T C	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ ATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676d	134	C A	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ C/AJATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTG AGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676c	114	A G	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676b	92	C T	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT
WI-9676a	84	A C	---	---	GGCCACTGTCCAAAGTCTGCACAGTCCCTCCATATGGCAAAGATGAAGAAAATTGGCAATCTTTTAA GGGTACCAAGGNTCTGAGTTTGACGGTCTTTATAATGCAGAGCAAGATGGCTTTCTGCCCCQ CCCATTTCACTCAAGGCATCTTCAGCAACCCACATGGCTTCCCTCTGTGCGCATGAAATAAATCTTGA GGCCAGGGTCTCTCAGCTTTAAAGCCTTGAATCCTATGCATTGTTTGTTT

WI-9738b	40 C A ---	---	TGGACCAACACAGACAGATGATTCCTGGTGCCTGTGTA[C/A]ATTACAACATCATGATCACAATGC AGCAACATCAACATCTCAAGGAGTCCATTTGTTCAAAACACAGTAATGACTCCACATTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTACCTTGCCTGGAGCGGGTGGTTTTCACTATGTGAGTATCTA TCCTTTATTCTGTCCCTATGTGGTGGGCACATGCTGTATTGCTGCC
WI-9738	40 C A ---	---	TGGACCAACACAGACAGATGATTCCTGGTGCCTGTGTA[C/A]ATTACAACATCATGATCACAATGC AGCAACATCAACATCTCAAGGAGTCCATTTGTTCAAAACACAGTAATGACTCCACATTTCCCTTT GAGTCAACAAAAGACTCTGCTTGTACCTTGCCTGGAGCGGGTGGTTTTCACTATGTGAGTATCTA TCCTTTATTCTGTCCCTATGTGGTGGGCACATGCTGTATTGCTGCC
WI-9756	47 A ---	---	ACTGAAATGTAAATGGCCAAGGCCACCCAGGACCTTAAAAATCATAAGAAGTTAATCTGTGGGAAAA GAGTAACACTACAAAAGCATCTAAACAAGAGCAGGATGTGATGTAATGTGTCCCTTATCAGTTAGTC AGTAAAGATAAGAAAGCCCTGGTGAGTATCCACTTCCACAAACACACAGATAATACACTTTTGGAAAG ATTCCACTTAACCACTTGATTCTTCACCTTTTATGATTTAAAACTCTCCGTGG
WI-9758	135 A G ---	---	GATGTCCTTAAGGATTGCAATTGGTTAATGGCAGACTGGTGCAAAAGAGGCTGAATTGAATAAT TAGGAACTGGGAGAAATTCAAATCAAGAAGAAATCTTGTTCGCAAGGTCAATTTTATACTATTTA A[A/G]TAAATAAATCTGTAGTTCTATAGCAAAATGCTAAGTAAAGTAAACCGCTGGTTCTAAAT ATTACG
WI-9778	127 G A ---	---	ATTTAAATCCAGGCAGCGGGGAAAAATGGATACCTTCATATGTCTGTACCCCACTATAAACTTTTG GTTCTCATGCACCATTTTCATTTTGCTTCTCACTCCAAGTACCAGTATTTACCAATTTG[A/CTCTC ATAATTGACTTTGCTACTGGAAGAACTCTTAGAATGTTGGAATTTCTCTATTACACACTTTGCTCA AAGAATGTGTCAGTCAGGACTAAAGGCAATAGTCTCAGGGCAGACAGCC
WI-9832	116 C A ---	---	TCCTCCCTTTGCCCTCATGCCACTCCCTCAGCCTGCACAGAGCGTTTCTCCAGTGTAGTCTCTGGT CCATCTGCATCAAAATCACCTGCAGGACTTGTGACAATGCAGTTTC[A/AT]GGATCCCACCCAGGA CTCAAAAACCTAGGAATTTGGAGAGAGGACCTGGAAATCGGTGTTGCTAGCAAGCCCCCAGGTGG TTTGTAAAGTGGACTAAAGTTGAGGACCAGACATGGAAGTTGGCTTTGGC
WI-9841	101 A G ---	---	TGGAAAAATAGCTTTTATCAATCTCTGATATGCTACATATGTCATGGAGAAATGCAGAAATGGCATGA TATGAAATTCATTTTGAATGAATAAAATATAC[A/G]GTGTATGTATATATATCTTATTAACTTT AGGATTATATACACACAATAAACGCTGTAGGATAAACTAAGGTTCTATCAGTGGGAAATGAGA TTGAAAAGAGGGGATGTTACTTGATATGCTGTG
WI-9880c	222 G A ---	---	GAACTAACACCTTTCTGCATGGATTTTCTTGAATTATGGCAGTTAACAATAAAATGTTATTAGATC ACTGGTCTCTGTGTGGGTTGAGTTTTTATGATATCTCTGTTAGACCCATAAGGGAGGCTGTGA GTTGTTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATTTATATTTATATAAGCACATGAA AATGGAATGAAATAATGA[A/G]ATTGACATAGGAATTACCTACATATTTTG

WI-9880b	157	C A ---	---	GAACAAACACCTTTCTTGCATGGATTTTCTTGATTTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGGGGTTGAGTTTTTATGATATCTCTGTAGACCCATAAGGGAGGCTGTGA GTTGTTTTCTACATCCTTGA[C/A]TATATAAGATCCTCTTTTAAATATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-9880a	108	C T ---	---	GAACAAACACCTTTCTTGCATGGATTTTCTTGATTTATGGCAGTTAACAAATAAAATGTTATTAGATC ACTGGTGCTTCTGTGGGGTTGAGTTTTTATGATATCT[C/T]CTGTAGACCCATAAGGGAGGCTG TGAGTTGTTTTCTACATCCTTGGACTATATAAGATCCTCTTTTAAATATATATTTTATATAAGCACAT GAAATGGAATGAAATAATGAGTTGACATAGGAATTACCTACATATTTTG
WI-10183	127	C T ---	---	ACACTGCAGGCACCTCCAAATCTNACAGACATATGCACCTCGGAATCAACTCAGGCATGCACAGCAT CCCTGTGCTGGAGTTATTTTAAACAAACGCCCCAGTTATCACAGTTTCNTTTTTTG[C/T]CACC ATTTCCATAACAAAGAGCTACACAAATTTNGGGGGGAGANACTCTCTTTGGAGACTGACACATTT TGCAGAGGGGTCAATGAATAATGATTCCTCAA
FB25G10b	109	A G ---	---	TCCCTCAATGACAGATGAACATAATTTCTCTTGGTAAGAAATACTTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAGAAATGGA[A/G]TGATTTTAGATCCTCCCCCAG TGACAAAGTAACTGAACCTGACCATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
FB25G10	109	A G ---	---	TCCCTCAATGACAGATGAACATAATTTCTCTTGGTAAGAAATACTTTATGTCCATTGTGATTAAA AAGTCAGATTCAAGACACTGCTTTATGTACAGAAATGGA[A/G]TGATTTTAGATCCTCCCCCAG TGACAAAGTAACTGAACCTGACCATATTTATACATAAAATGGAATGTAAGAACCTATTTTGGATATCC CGGAC
IB3071	102	C A ---	---	ACAACGCTGAACCTCCATAACAGTCAATGGTACAGTCAAAACATCACATGTACAGAACACACAATTTA GATGAACCTGAAATTAAGNTAAATAAAATAAAAT[C/A]CAATTTTCAAGNAAACAAAAATCAAAAC ATTAAGGNTCCCTGNNATATCTTAAACCTTAATGAGATTTCACTGGNCTCAAGTCATTTTGTAGTGA GGCATTACAAATAGACCCCTATTAACCCAGTCTAGGGATTCTG
NIB551	161	C T ---	---	CGTCCCTTCTTTTGTGATTTGCAATTAAGTAGATAATATGAGAGAGAACTGACAAATTTGGGTTGTCCC TACTGAGCTTGGGGCCAGGTGTGACTTAGGAACCCAAATCCCACCCAGAGAGACTCATCTATGTTA ACACTAAGGATGCCCCGGAGGAGT[C/T]TGACCCACATACATGCGGCCATTGGTTGATTCAGCTTT GCAAGCAGCGTAGTGAGAAACCCAAAGCTTGTC
S72904	51	G T ---	---	AGCATAGAAAGTGATTTATTTTTTAATGGTTTCAAGTGAAGTCTTT[G/T]AATTTGTGAGTTG ATTCTGGAAATCTTTTGTAGTTAAATAAGGATCTTAGGACGACCCCTCGAACTACAGGCCCTAAA GAGAAATGGCTCAAAACCAAGTGTGTAACCTCTCCCTTTCTGTCAATTTGGTTGTCTTTAAATA TTGCAAAAGTCTGATGCTAAACAGTATTTGGAGTGTTCAGTGTCTGTA

UTR-00481	115	C T	---	---	TATTCCTTTTATCCTGGGGCCACAGTCTTGATTATTCCTCTTGTTAAAGACTGAATTTGTAAACC CATTAGATAAATGGCAGTACTTTAGGACACACACAAACACAGAGCTACACCTTTTGATATGTA AGCTTGACCTAAAGTCAAAGGGACCTGTGTAGCATTTTCAGATTGAGC
ESTC1	33	---	---	---	CCCTGTAGCAGTCTTCAGCCTCCTCTACCCCTACNAGATCTGGAGCAACAGCTAGGAAA
ESTC102	37	---	---	---	GCTACTACACGGGTGCTTCGTTTGGACAAAAATAACNAGGAGGCATCCACGGGATTAGTTA
ESTC103	21	---	---	---	GCCATCAAAATTTCCCTTCACANTCAATACTGTTGAACAACAAGATAACACATCTTCTTGCTCATCCC ACTTGAA
ESTC107	20	---	---	---	TGCTGGCTCACTTCCTCACANGCTGTATTACCTTTTCAGAGCTGAGTGAGGCTGTGCT
ESTC109	35	---	---	---	AAAACGAGGAAGCCCTGCCCGCAGAGGCACATGNACAGGGCAGTGCACAGTGACC
ESTC110	23	---	---	---	AAACCTCACACAGAAAAAGAGGANAAACACTCAGAAATGTGATTACAGATTAGGCA
ESTC113	37	---	---	---	AAGGGACACAGTGTGCTGACAAGGTGACACTGAACANACAGTTTCCCTTTAATTGTAAAAGCGGG CATCG
ESTC117	24	---	---	---	AATTGGCTCTTCTCCACATGATACNTAAGTTCAAGGTCCAAAAGTTCCTATCACAATTTACAAAAAGC CTCCA
ESTC119	24	---	---	---	TGTCAAGCAGATCTTGAGGGTTATNGTTAAGCCCTGATAACAGCCTCTTT
ESTC122	34	---	---	---	GACAATAAACAGCTAAGCTACTGACATAAAATATNCAATAAATTTATGAGATATAAGGTACAGATG AGAAAAATCTGAAA
ESTC123	21	---	---	---	GAAGCCAGTATGTTGTGGCAANAATTGGAGAAAAACACACTGAAAAA
ESTC128	42	---	---	---	GCAGAGGCATCAGATAAGGCCTCAGAAAGCCCGAGGCCATCATNTCCATGGGACCAGGCTGGCTCAA TGTTGGAAGTGG
ESTC129	20	---	---	---	AGTCACCATGCCAGCCTAGNATGAGTTTAGTAAGATTGTGTTATGCTGGGAG
ESTC13	46	---	---	---	GTGTATCTGGGCTTCATGGGATGCATAAAAAATTTCCAGTTGGTAAGNAGCAGGTGCCGAGGGTCTGGA TCAGAAAA
ESTC130	49	---	---	---	GCCTGCTCACAAGGTAGACAAAAACATAAAATCTTCAGGAAAAATGAAACANGAGAAGCTGAAACAAT CTACACCTGAATG

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ESTC132	30	---	---	---	---	GGTAAAGTCTAAATTACTGCCCTTAGCAAACNCTATGTGTGTCAGGTTTTCTGCTGCA
ESTC137	21	---	---	---	---	CCAGTTTGGCTTCTGTCTCTCANAGTCTCTCTCCATGTGGCAACA
ESTC139	45	---	---	---	---	AGGAGCACAGCCTAAGGACATGAAGGTACAGAGTTTCTCAGAGAGNGGGCTGGTCCCTGAGCTAG GAGGAGG
ESTC14	20	---	---	---	---	CCCATTTGGTCCACAGGAAGNAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGCAATGGTTAGAAAGC TTGCCCTGGTG
ESTC142	72	---	---	---	---	CCTAGGCTCATAACAATACAGTCTCAATACAAAAGACGTAATACTATTTTATTCATTTTAAATC AAGANACCATTCCTTAACAAACA
ESTC143	29	---	---	---	---	GTTTACGAAAGTACTGAAATGCTATTANTAGCTGAATTTGTGATTTCCCTTTTG
ESTC144	26	---	---	---	---	AAATCCATATTTTCTTGACATGAGGTNGCTTTTATAGCAGCATTTTCGG
ESTC146	20	---	---	---	---	CATGTCAGGATAAGGAGCANACACCAGGATTTATACCGGTGGCAGCG
ESTC148	42	---	---	---	---	TCCTTGGTTGCTACACAGACACTTAAGTACTGTATCGCTGTNATGCAGCGGCCCTGTGGAGGCCCTCG GGGTGGCTGGGCTGTGTCTGAG
ESTC149	28	---	---	---	---	TCAGTTCATTTATTGCTTTAAGAGTTANATACCATGAGACACAGTTCTGG
ESTC15	28	---	---	---	---	GGATTGTAATATTGCCAGCTTTGTAAAGNCATTAAAGCAGAAGTTTCTTCAGTGATCTT
ESTC150	20	---	---	---	---	CCAGGAAACAAAGCACACANACTTATAGAATCTTTGGTTTAAAAATTATTCATAATATCAATATT AACTCTGATGTTTAAAGAACCTAATGAGA
ESTC151	49	---	---	---	---	GAAGCTAAGGCCCCCATTTTTTCTTTTAAATACAAATCTACTGGTGCTNAAAACTCAGAGCTTAGGA AACACAGCC
ESTC155	37	---	---	---	---	TTTTTAATTGACAACTCAATCTCTACATACATACAGTNTTGCACGAATTATAAGTGGATCAACAATT ATATTATTGATACAACTCATGAGCATTTTACA
ESTC156	32	---	---	---	---	GCAGCATTTGTGACAGGAGAGCGCAAAACAAANCCTGGCTGCCCTGGGATGGAGCGGGGGCGGCTCA CCACCACTGCAT
ESTC158	35	---	---	---	---	ACCAAGCCCCTGGGATTTACTGTCTTGATGACTACANGGCTTTCACAGTCTGAGATGCTTCAGTGTGC AA
ESTC159	31	---	---	---	---	AGCTGGCAAGAGACTTCCCTGAGGCACATCAGNTACGTTGGTCAATTTAGGGCACGGTCTGGTTCTGCA GCTTTGAAAGG

ESTC16	23	---	---	---	---	CAC TGA ATGCTCTGCCATGAGCCNCAAGCAGCACAGTGA TCATCACCACAGGACAGGTT
ESTC160	38	---	---	---	---	TTCTAGCATTCGTGGTGAGTGGGGGCTGAGCTGGGNGCAGTCGGCAGTGTCACTGGGCCGTTTG GGACTGGGTGA
ESTC162	36	---	---	---	---	CTCTTCGTCGGTTTGAAGTTGCTGTTTGTTCAGNTACACGAGTCAGAGCTCCACAG
ESTC164	31	---	---	---	---	TCATCTCCATAGAATATTGGTTTGTAAACANGAATACAATCCAATATATAACATTA AAAACAATCC GATACATACCA
ESTC169	22	---	---	---	---	GTCTCTGGTGTGCAGGGAATCANTTTGTCTGGATTAGAGGAAAGGTGCCGCCGTCTGTTTCCAIGACTT
ESTC176	23	---	---	---	---	CACCTCTCCCTGAGCTACCCANGTAGTGTCTGGAGCTGGCA
ESTC177	42	---	---	---	---	TGGGTGGCTCTTTAAATACCTTCCATTATATTTTCAAAATTTTNCITTTATTTCTATTA AAAATACCTTTTAT TCTCTTTATCCCATAAAAAGGCAACCAA
ESTC18	29	---	---	---	---	TCAGACACTGCCGACATCAGCAATTGTCTCNTGTACAGCTCCCTCCCTGCAGGGGCCCTGGGAGAC AACTGGACAAGA
ESTC181	21	---	---	---	---	TAGGGATTCCAAGTTGCCTGGNTTAAATATAATACATA TTCACAAAATTTACACAGCTCATGCATAC CA
ESTC186	43	---	---	---	---	GCTTGACTAGCGAGGCTACATCACAAATTTATAAAGTGCCAGATNAGTGCTAATTGTCAATTCAGCTTG ATTTTCAGCTCA
ESTC187	24	---	---	---	---	ACCATGATTGCCTCACACAAGCATNATCAATGCCACGAGAGACTGGATGCCAAAGAGTATGGCTGG
ESTC188	25	---	---	---	---	TCTATTAA CAGGGTTATGTCACACCNTGTCAACCTGTCAACCTCAAAACAGATGATACATCAGTGTCTTCCAT CTTGC
ESTC189	27	---	---	---	---	AAAGTACAATCCAGTATATGCAGAAAGNTACTCAGCATCACACTCGTGATCA
ESTC196	42	---	---	---	---	TCCTCAAATACCACCTTCCCTTAACCTTATCAGTCTAGTAAGCNITTTCAAAGGAGGAAAATGGGTTAC CTTTCAGGGG
ESTC197	26	---	---	---	---	ATCTCCAGTGTCTGTGCTGCTCCTCCNGCAAAGTCTCCACAAAGCACA
ESTC20	33	---	---	---	---	AAGATTAGGACAGACCGCGTATAGTAACTCTGNGGAACTCCAAGAATCTAGAGGGGGGCTGTGGGAA CGCTGCTTAGATC
ESTC200	44	---	---	---	---	TTTGGTGAAATCCCAATATATGAGTTTAAAAAAAATCATTANCATCATTAA CAGTACTTTAAAT CAATTACTCCTTTTGCCTGCAACAG

ESTC201	35	---	---	---	---	TCCTACTTGGGTAGTTTAGCAAAACATTTTTAAANCCACATCCAACAGATTGGTT
ESTC202	22	---	---	---	---	CTGCTGGAGGGAGGACAGACGCGNCGGCGCTGGGTGGCGCCCGCCAGAAAGGCTGGCGTGGATGTT CGAGATGAGCC
ESTC203	27	---	---	---	---	ACACTTAACAGGTTAAATAATCCAAATNAAATTTACTGCAACTTTTGTAGAAATTTTATTGTGCTAC AAGACACGTTGCA
ESTC208	43	---	---	---	---	TATAGCCCCATCGCTCTCAGTTATTAGAATCTGAGAGGGATAANAGCAATACTATTGTTTAAAAGC CTAAGAGTGAAAA
ESTC210	29	---	---	---	---	GATGAAGTGGCTTCCTTTGGCGAAAGGATNAAGAAGTGAGTGACGGTGACCTGTG
ESTC212	27	---	---	---	---	GGGTAACCTGATGAGGAAGCTCTAGTGNAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGT TCAAGTC
ESTC214	21	---	---	---	---	CTCCAGAGTCCCTCCTCTCANACCGGGCAGGAGGGAGTTAGGGAAT
ESTC216	49	---	---	---	---	TGGCAAGAAATTTATTTACACTAACAAATTAATTTAATCACAGGTATNTTAGATTGGTCAGAAAA CAAAAGACCA
ESTC217	28	---	---	---	---	TTTTGTCAATAATGAGCAATACACTGANTGGAATCTGCATGATTAATAACATTAAACAAGTTCAT AAACACACCCCA
ESTC219	32	---	---	---	---	GTACACATCTGGGGTGAGCACACAGCAAAANGGGTGGGACGTGCAGAGAGGTATAGGGTAAAG GCAAAGGAAGC
ESTC22	41	---	---	---	---	TCATTGAAGAAAAATTATGGGTTTTATTCTTATTCTAATTGNGAGAATGCTTAATGTCACAGGCTACA TAAGGGCC
ESTC223	27	---	---	---	---	CTTCTGAAGCCCAAGAGAGGGGCGAGAANGTAGTCTTGATTTAAAAAACAGAAAGGGGAGGAGGA
ESTC224	37	---	---	---	---	CGAAGGTAGATTTCCCTCACATATTACAAAAATACACANAACACACACACACACACACA
ESTC225	20	---	---	---	---	TGCACGTGTTACTCCCCAGACNGAGAGCTTACATACCATATAGAAAGAGCATAAGTGCTTCAGAAAGGA ATGTGTAGGATCG
ESTC23	27	---	---	---	---	TTCTACTTTATTTTCATATCCCACCACNATAACGACTCCTTTAATTTAACTAAAAACCATACAGGGT TCCTGAAAGGG
ESTC230	43	---	---	---	---	GCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATACNTAAGGAGCAGGCCAGAAATTAAGA
ESTC231	24	---	---	---	---	CAAAAGGGTTAGTCATATTCCCCANCAACAGCATGATAAAATAATTCAAC

ESTC28	23	---	---	GAAGAGCTGGGCACGCATCTGACNTTCTTCTCTATCTCTATAAAAAAAGGAGCAGAAATCTG
ESTC3	20	---	---	GC CAGACATGACCTACCGTCCNGGCCCTCAATTCTATATTTATCTTGAGCCGCTGGTCAGGTTTGAT
ESTC31	32	---	---	TCGCACACTCC ACAGCCCAACAGAACTATTGTAAACAATATTNTCAGTCGGTGATCATTTGTAATATACATAACAAG
ESTC33	25	---	---	CAATTTCCTCAGA AGCACTCCAGCTCCTTGACGTTGNGGACCAGGGAACCTCCGGAA
ESTC39	26	---	---	AAGGAAAGGGAACCCACCTGGCTTTNGGTACAGAACTCAGAGCCTGGCAITTA
ESTC4	23	---	---	CCACTGAATCACACAACATGGACNAATCTCAAAATCATTAATGCTGATGGAAAGAAACCAATT
ESTC40	22	---	---	GGCATGCTAGACAGAGGCATTANTTTGAAGATCTTTTAAAAATATTTTGACTTGTCCCCCTTCAC
ESTC45	37	---	---	TTTGAGGTTTGTGCTGGAGTTTGTCTTTGTAAACNCTCTCATCATCAGAGGCTATATATTA
ESTC50	56	---	---	CTGTCCGTGGTGAGCCCTGCCGCTGTCCCATGGGCCAGGAGCCACTGGTGGGANCCGGGCAGATG
ESTC56	45	---	---	TTACCCCTGT GTGCCCTGAAGATTAGCAGCAGCAGCAGCAGGTTGGCAGGAAGNAGTGGAGGAAAGGACACCA
ESTC57	20	---	---	AGT AAGTGGGCCCTCCAGTCCNCTCTCTGGGCACAGATCCACCAGTCTGCTC
ESTC59	38	---	---	GAAACACAAAAGTGTTGAGAAAAAACTTCTCAAAATNGTCCAGACTTCAGGAAAATGATTTCC
ESTC6	27	---	---	ACATGGTAAGGCC TCTGCAGCACTTCACTACCAAATGAGCNITTAGCTACTTTTCAGAAATTGAAGGAGAAAAATGCATTATG
ESTC61	57	---	---	TGGACTGAACCG AGTGAATTTGGCTAGGCGTGTCTCATCTGTGAAATTCACAGCGCAATGACAGCANCCTCTCTCCC
ESTC63	20	---	---	ACCCACTCAAG ACAGACACAGCATCACACCAANAGGGCCACGGGAGGTCGGGAGACGACACTTTTCCCTGGGAAA
ESTC69	20	---	---	GGCAGCTCTAATC GAGAGGCTAGTCAGGAGGGANACCCTCAAGTTTAAATCCCCACACTTACTTACTGCTCATCCGT
ESTC7	45	---	---	CACITTCGCTAA AGTTTCCCTAGAGCTGTGGGCCAGATAGCTGTTCTGAGTTGCANGCACGATGGAGATTTGGACACT

ESTC72	37	---	---	---	GGGCTTCCAAATGGGTATTGGGGCCAGGAGGCTGGCNIITGGCGTGACGCCTAAAGAGTGTGACC
ESTC74	49	---	---	---	AACAATTCACAGCTACAGGAAATCTAGAACAAAATCAAAATATTCATCACNTTGGGTGAAAAAGTTG
ESTC77	40	---	---	---	GAAGA ATGACTTCTGTCCCATCGGAACACAGAGTTTCCCCAGNGAGCCCTTCTCTATCTGCGGTTA
ESTC81	20	---	---	---	GGCTACGACAGGATAAGANCCCCACTCCGCATGTCCCCAGAGGGCAGCACTCCAG
ESTC82	25	---	---	---	TTTCAGATGATGGGGTCTGAGATGNTCCCTCAGGCTGCATCAGCTGCTTCAGTCTCCAGAACAGAAA
ESTC83	53	---	---	---	GAGCCTGACCCA CAAAATCAATACACAGATCCAGATATGTGAACCATATACATATCTATACANCCATTATTAGAC
ESTC85	28	---	---	---	TTTCACAAACCT TTTAGCTGCTATACCAAGTTTCCATAAANCTGTCTGCTGGTTGGGGAGGCTACAGCCTGACCACATTCT
ESTC89	22	---	---	---	TTTGC ATTGCAAGGAAGTGGAAACGTGNTCAAAACAGAAATGGTGACAATGA
ESTC90	33	---	---	---	CTGGTTCTCTCGICTTGGCATTCGTCCTCCTCNGCCAGTGTCTCCACCCAAAGTGTCTTCCCGATGAT
ESTC93	29	---	---	---	CTCCCCTCCTCAGTTCACAGTGGAGACTANGGAGATTACGGGCAGGATCC
ESTC95	32	---	---	---	GCACGTTCTTTGTTCTCCTCTTCCAGAAAGTTGNAGACGCTCTATTTAGTTTGATTATCTGTCTG
DWU-100	127	C	T	---	AAATGACTTGACGAAGCTCATAGAAGATTAGCAGGTAGTAGAATAATGACTGCTGACTCCTAATTCA GTGGATCTTCCCTGGCCACCGTTTGTATTGAGCTGCAATGCTTCTTGAAGTGTCTCCA[C/T]GCCAG ATCTTATCAATGATCTTTACCTAAGAAACAGCAAAAGATTCTGGCAAGCACACGATCTAGAGATAC ATCTTATTGCGATTTTTCACAAAATCAAAAGAAAGAAAGGCTTAGCTG
DWU-177	77	A	G	---	TTCCATCCTAGATATCTACTCAAAATAATTGAGACAAGTGTCAAAACAGAAAGACGCTTGTGCTGAA TGTTTCATGGC[A/G]GCCCTATTACAGTAGCCAAACGATGAAACAAACCCCAAGCTATATATACCA GATGAAAGGATAAAACAAAATGTGGTCCATCCATACAATGGAGTATTACACAGCCATAAAAAAGGAAT GAAGCAGTGTATCCCTACTACACTGTGGAT
DWU-286	213	A	C	---	CAAATACCTGGACTATCAACCTTGTGCTTAATCCCTGCAGCATTCAGGTTAATCCATCTAAGTGAC ATTTTGAATTCAGCGGTGCCACCCCAATCATGCCAGCTTCTGTGCATATGAATGAGATACATTT ATGCTGACCTTCCCTCAAGACTGATTTTTCATGTCTGGGACTTACAATATCTCAAGGAACAGCAATG TCAACAGGG[A/C]TGGGAAACCCAGCCCTATCTGAGTCTTCGGCTCCCTCC

DWU-252	94	A G ---	---	AGTATACAAACATTTAAGCTGTGGTCAAGGCTACAGATGCTGACAAGGCACCTTCATGTAAAGTGT CAGAAAGGAGCTACAAAACCTACCCCTCA/GJTGAGCATGGTACTTGGCCCTTTGGAGGAACAATCGGC TGCATTGAAGATCCAGCTGCCTATTGATTAAAGCTTTCCCTGTTGAATGACAAAGTATGTGGTTTTGTA AT
DWU-330	85	C T ---	---	GAACATTCTCTGCAGCACCTTCACTACCAAATGAGCATTAGCTACTTTTCAGAATTGAAGGAGAAAA TGCATTATGTGGACTGAA/CJTCGACTTTTCTAAAGCTCTGAACAAGCTTTCTTCTCTTTTGC CAAGACAAGCAAGCAACATTTTGCAATTAGACAGATGACGGCTGCTGAAAGACAATGTCAGAAA CTCGATGAATGTGTGATTGAGAAATTTACTGACAGAAATGCAATCTCCCT
DWU-370	231	A G ---	---	GAAATGTTAATTGGGCAGGTGAAAAGGTACAGATGTGCTGTAGCAGACCTTTGGTTTTAAAAAGAG AAGCATCATTTCCCAACAGGGCAACTGTAGAAGGCCAGCTGAAGAGTAAGGAAAGGTCTGAGG ACTGAGCCTGTGGCTGGCTGGAAGAGGTGAATGTTGAGGGCCCTTCACTTCCATCACAAGAAAGTC ATTAGACGGTACCAATTCAAGTGTCTGTTCCCTT/GJGCACTATTTCCCTCTGTGC
DWU-1537b	89	A G ---	---	CTCTTAACCTCAGTTCCTCATCTATAAGAATAAGGGATTCAAGTTGTGATCACATAGCTCAGGTAATC CAGGACCAGAAACCCAGAGC/GJTGAGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGTAACACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
DWU-1537a	52	C T ---	---	CTCTTAACCTCAGTTCCTCATCTATAAGAATAAGGGATTCAAGTTGTGATCA/CJTAGACTCAGGTA ATCCAGGACCAGAAACCCAGGAGCATGGGACCTGATCCACAGCTAGAGGATGGGGACTCTGTAGCT ACAGCATTTCTGTAACACACAAGAAATCCAGTAAGCAGCACACACTGGCTGA
ESTD-ADAb	196	C G ---	---	ACCATCTTACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCCAGCTCCACCCAGAGGCCCTGGGAATTCAGGGGTCACTGTTCCCTCTCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAGTGGGACTGTGAGGACATGGAGGCCCTG/GJGCACTGAGCTGCAGA CCCGCAGACCAACTCCTGAGCTTTCTGGGCCCTCTGAGCTTTGTCTC
ESTD-ADAa	184	G A ---	---	TCTCCTGTCACTTCTACTCCATTAGTTCAAGGTCAGTGAAAGAACTGGGCAATTAACCAAGTAATCA TGGACTGCCAACTGCGAAACAAGAGGGCGCAGTGGAGCAGGAGTATTATGCTACGCGGTACCTT TTTTATGAGGACCGAACTGAGGC/TCTGAGCTCAGATGATCCTGT
ESTD-ANT1	160	T C ---	---	TGCCTGGGTGGCAAGGCTGCAAAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGCGGGCCATGGTA AGATGCTGCCACCTCTTATCTACTTGTATGATGTTACATTTGGGGCTTGACTTTCCAAACACGGAGAAG CATGTTTCTTCGGGCCAAGAAGGTATCTACC/GJATAGTGTGCTATTAGGCATTG
EST10398 2b	168	A G ---	---	

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EST10398 2a	147 C T ---	---	TGCCTGGGGTGGCAAGGCTGCAAAACAAGGAGGCAACCCAGGAGGCTTTATGAAGGGGCCATGGTA AGATGCTGCCACCTCTATCTACTTGTATGATGATGTTACATTTGGGGCTTGACATTTCCAACACGGAGAAG CATTTGTTTCTTTTC/TJGGGCCAAGAAGGTATCTACCAATAGTGTCTATTAGGCATTTG
ESTD-C7	14 G C ---	---	ATATCGTGGCCTTA/GCJTACCTAGAGCTGGACAATCCTGCTGGA
ESTD- D4S95	90 T C ---	---	CTTTATGCACGATAGGCTTTCTCTACTAATCACAGAAATTTTGAGAAGAGCAAAACAACATTTCAAGG ATAATGGGGCAATCACTTTCTTTTC/TJCTTTAGAGTCTACCGG
ESTD- GPPK2L	38 G A ---	---	AGTCTTCATCTGCGGTGTCCAGGTAGATCCCTTTTACCCTG/AJCCGAGAACTGCTCGATATC
ESTD- HRASb	82 A G ---	---	CTGGGCTGCCCGCAGCAGCTGCTGGCACCTGGACGGCGGCGCCAGGCTCAOCTCTATAGTGGGGTGG TATTCGTCCACAAA/A/GJTGCATCTGGATCAGCT
ESTD- HRASa	37 C T ---	---	CTGGGCTGCCCGCAGCAGCTGCTGGCACCTGGACGGC/TJGGCGCCAGGCTCAOCTCTATAGTGGGG TCGTATTCGTCCACAAAATGCATCTGGATCAGCT
ESTD- NRAMP	81 A G ---	---	GGAGGAGGAGGTGGGAGGGGTCTGTCTCTCCAGGTCCACAGACCAGAGAGCGGCTCAGTG TATCCCCACCCCA/A/GJTGGCGCTGGGAGATGAAGAGGATGATGCAGGT
ESTD-OTC	18 A G ---	---	GTGACCTTCTCACTTTAA/A/GJAAACTTTACCGGAGAAGAAATTAATATATATGCTATGGCTATCAGC AGATCTGAAATTTAGGATAAAACAGAAAGGAGGATGTAAACA
EST36751 7	36 C T ---	---	CCAAGTCGTTCAATTTAGCTTTGCAGGTTTAACTTC/TJGATTACTTTTCTTATTTCAAAATCTCTGTA AAATTGAAATATGAACCTAGTTTCTGATCTATGGTTTCAAGTTAAACAG
EST40562	109 A G ---	---	CACGTGGAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAAATCTGCCCAACTTGTGGCTGAC TTTATGGCTAAGAAGTTTCACTGGATGCATTAATAACAAAT/A/GJTTTTACCCTTTGAAAAAATAA ATGAAGGATTTGACCTGCTTCGCTCTGGAAGAGTATCCGTACCGTCTGACGTTTGAACAATACA GATGCCCTCCCTTGAGCAGTTTCAGCCTCCTCTACCCCTA
EST18288 3	121 C T ---	---	GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAA GATTGACAGGTTTCATGCAGGCTGTGACAGGATGGAAGACTGGCTGCCCTGA/C/TJGGAGCCAGT GTGGACAGCACCCCTGGCTTCAACACCTACGTCCACTTCCAAGGTAAAGGCAACCTCTCTGCTGGCTC TGGCCCTAGGACTTAGTATCC
ESTD-AK- 168	31 C T ---	---	GGGAGTGACAGCTAGAGCAACCAAGGGGGCTTC/TJACAGCTGTGTTCTCATGGAGGACAGGCTTCT GCTCATTCTGG
ESTD-ALB	180 A G ---	---	AATCCAGCACTTTAGGAGGCTGAGGCGGCATATCACAGAGGTGAGGATTTGAGACCCAGTCTGA CCAACATGGTGAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGATGGTGGCATGCCTGT AATCCAGGAGGCTGAGGAGGAGAAATCGCTTGAACCTGGGAGGCG/A/GJAGTTGTGGTGAGCCGA GATGGCACCATTGCACTCCAGCCTGGGCAACAAGAGTAAACTCTGCTTC

EST70523 3	182	G T ---			TTCCGGCAGCCCCCATCTTGGCACCCCTGGTCCOCTCAGGGGCCACCCCGCGGCACTCACCGCTCT CGCTCTGGTAACATCCGGCCGGCGCGCTCTTGGACACATAGCCGCTTCCGTATAGGAGG ACCGTGTAGGCTTCTCTCCCGGCTTGGCAGGGCCAGCCCTG/JCAGAGAGGGGTCCTGT GGTTGAGCTGAACACAGCTGTGGAGTGTCTCCACGCTG
ESTD- APOA2	101	C T ---			CCAGGTGTTGTGGCACGTGCCTGTATCCAGCTACTCGGGAGACTGAGGCATGAGAACTCTTTGAAC CGGGAGGGCGGAGGTGCAGTGAGCTGACATCG/CJTGCCACTGCACCTCCAGCCTAGGTGACAGGC AAGACTCC
EST58707 7	112	C T ---			CAGTGTATCTGGAAGGCTACAGGACACCAAAATAACCTTAATCATCAATTGTTACAGGAGCTTT AAGTTCAAGCATCTTTGGCTCACATGAAGGCCAAATCCGAGAGAC/JCTAGAAAGATACACGAGAC CGAATGTATCAAAATGGACATTCAGCAGGAACCTTCAACGATACCTGTCTGTAGGCCAGGTTTATA GCACACTTGTCACTACATTTCTGATTGGTGACTCTTGTCTAAGAACCTT
EST74167 6	137	C ---			AGACCATGAAGGAGTTGAAGGCTACAAATCGGAACCTGGAGGAACAACCTGACCCCGGTGGCGGAGG AGACGGGGCAGCGGTGTCCAAGGAGCTGCAGGGCGGCGAGCCCGCTGGCGCGGACATGGAGGA CGTGGCGGCGCGCTGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGACACCGAGGAGC TGCGGGTGGCGCTCGCTCCACCTCGCAAGCTGCGTAAGCGGCTCTC
EST43211 8	132	C ---			CGCTGGTGCAGTACCGCGGAGGTGCAGGCCATGCTCGGCCAGAGACCGAGGAGCTGCGGGTGGG CCTCGCTCCACCTGCGCAAGCTGCGTAAGCGGCTCTCGCGATGCCGATGACCTGCAGAAAGCGCC TGGAGTGTACAGGCGGGGCGCGAGGGCGCGGAGCGGCTCAGGCCATCGCGGAGGCGCTG GGGCGCTGGTGAACAGGGCGCGCTCGGGCGCGGCTG
ESTD- ARSB	126	A ---			GGAAAGAAATGGAGCTGTGGGAAGGAGGCGCTCGAGGGGTGGCTTTGGCAAGCCCTTGCTGA AGCAGAGGGCGGTGAAGAACCGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGCACAAAGCCTCTGGATGGCTCGACGTGTGGAAACCATCAGTGAA GGAAGCCCATCCCCCAGAAATGAGCTGCTGCATAATATGACCCAAAC
EST36770 4	144	C ---			TGTAGCCAAAGTCACCTGCATCATCTTTGGCTGGCAGGCTTGGCCAGTTTGGCAGCTATAATCC ATCGAAATGTATTTTCATTGAGAACACCAATATACAGTTTGTGCTTTCATTATGAGTCCCAAAAT TCAACCTCCGATAGGCTGGGCTGACCAAAATATACCTGGGTTTCTGTTTCTGATCAT TCTTACAAGTTATCTCTTATTGGAAGGCCCTAAAGAAGGCTTATG
EST26021 1	137	A ---			TAATGTAAGCTCATCCCAAGAGCCTGCACCATGTTTGGAGTTGAGTGACATGTTGAAACCTGT CCATAAGTAATTTGTGAAGAGGAGCAAGAGAACATCTCTGCAGCACTTCACTACCAATGA GCATTAGCTACTTTTCAGAAATGAAGGAGAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGC TCTGAACAAAGCTTTCTTCTTTTGAACAAAGACAAAGCAAGGCC
ESTD- BA511	29	A/G ---			GGGCAACATAGTGAAACCCCATCTCTACA/JGJAAATACAAAAATTAGCCAGGTGTGGTAGCAAG TGCCTGTAGTCCAGCTACTTGGGAGGCTGAAGTGGGAGGATCCCTTAAGCCTGGGAGGTGGAGGCTG CAGTGAGCCCAAGATGGTGCCACTGCA

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ESTD- BCL2	116 A G ---	---	AGCTGGATTAACTCCTCTTCTTCTGGGGCCGCTGGGCTGGGAGCTGGGGCGAGAGGTGCCGTT GGCCCCGTTGCTTTTCTCTGGGAAGGATGGCGCACGCTGGGAGAAAC[A/G]GGGTACGACAACCGGG AGATAGTGATGAAGTAGATCCATTATAAGCTGTGCGAGAGGGGCTACGAGTGGGATCGGGGAGATGT GGGCGCGGCGCCCCGGGGCGCCCCCGCACCGGGCATCTTCTCTCCCA
ESTD-BCR	69 C T ---	---	CAGTGGCTGAGTGGACGATGACATTGACAAACCCATAGAGCCCGGAGACTCATCATCTGCGCAAGA GA[C/T]CAAGAGGTGAGCTTCTGTTGTCCCGGAAAGGAGGAGCGAGCTAAGCTAACTCTGCTTC AAATCAACCATCCGGTGGACACTGTGTGGCTGCCATCTGCCCTGGCACA
ESTD- BRCA1aa	119 C T ---	---	AAGAAGAGAACTAGAAACAGTTAAAGTGTCTAATAATGCTGAAGACCCCAAGATCTCATGTTAA GTGGAGAAAGGTTTTGCAAACTGAAAGATCTGTAGAGAGTAGCAGTATTTCA[C/T]TGGTACCTGG TACTGATTATGGCACTCAGGAAAGTATCTGTTACTGGAAGTTAGCACTCTAGGGAAGGCAAAAACA GAACCAATAAAT
ESTD- BRCA1bb	139 A G ---	---	ACTAAATGTAAGAAAAATCTGCTAGAGGAAAACTTTGAGGAACATTCAATGTCACTGAAAGAGAA ATGGGAAATGAGAACATTCCAAGTACAGTGAGCACAATTAGCCGTAATAACATTAGAGAAAAATGTT TTAAAG[A/G]AGCCAGCTCAAGCAATATTAAATGAAGTAGGTTCCAGTACTAATGAAGTGGGCTCCA GTATTAATGAAA
ESTD- BRCA1cc	126 A G ---	---	ATGCATCTCAGGTTTGTCTGAGACACCTGATGACCTGTTAGATGATGGTGAATAAAGGAAGATAC TAGTTTGTCTGAAAAATGACATTAGGAAAGTTCTGCTGTTTTAGCAAAAGCGTCCAGA[A/G]AGGA GAGCTTAGCAGGAGTCTAGCCCTTTCACCCATACACATTTGGCTCAGGGTTACCGAAGAGGGGCCA AGAAATTAGAGTCTCAGAAAGAGAACTTATCTAGTGAGGATGAAGAGCTTCCC
EST51212 0	122 A C ---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTCTCCACAAGCCCCAATTCACTTTCTCA GAGGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTGTGCTCCCACTCAATACA[A/C]AAAGGCCCT CTCTACATCT
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTCAAT CAA
ESTD-C1R	40 A G ---	---	ACACAGGTGCTGGCACTGGGGCTGGGGATCCTCCTCCCT[A/G]ATTGCTCCGGGAAGCACATTCAAT CAA
ESTD-C6	31 A C ---	---	CCCAGTCAGTTGGGGACAGCCATGCACTG[A/C]GCCTCTGGTAGCCTTTCAACCATGCATTCCATC TAAGCTCTGCAAAAT
EST20118 2	119 C ---	---	GTTCGGAATCCTCCTCTGAAAGTGGCCGGGTTAATCTGCTCATGACGCTGGGGCTGTGGTCCAGCT GAGGTGAGGGGCTTGAAGCTGGAGTGGGGTTAGGGACGCGGTTCTGCGTGCATCTTAAGCTGT GAGAGCAACCTCCCTTGAAGCTGGGAGTGGGGTTAGGGACGCGGGTCTGCGTGCATCTTAAGCT CTGAGA
EST53018 6	67 A G ---	---	ACAATCCAGGTACACATTCCAGAAAGAGGGGTGGTCAGTGAGCCTGGGTAGGTCCAGTAATCCA [A/G]GGATTGAGGAAGAGGCCACGAGGATCGAAGTTAGTGAAGTC

ESTD- CB22	119 C T ---	---	---	GGCAAGTTTTATTGATAGAGAGGAAATCAATAATGGCAATGAGGAGACATCACCTGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAATGGCAGTGCCAAACCCATAGGG[C/T]GGATACAAAAG ACAGGAAGGAAGGGGTAGAACCATCAAGAGAGAAATAGGCTGGTGACCCCAAGCAAGGAGGACCT AGTAACATAATTGTGCTTCATTATGGTCTTTCCCGGCTTCTCTCTCACACAC
ESTD- CB23	136 C ---	---	---	TAGAACCATCAAGAGAGAAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCAATTATGGTCTTTCCCGCTTCTCTCACACATACAGAGCCCTACCAGGACCAGACAGCT CTCAGAGCAACCTAGCCCCATTACCTCTCCCTTTCCAGAGGACCTGAAAACGTTGCCACCCCGA GGTCGCTGTGTTGAGCCATCAGAAGCAGAGATCTCCACACCCCAAA
ESTD- CB24	145 A ---	---	---	ACCAGGACCAGACAGCTCTCAGAGCAACCTAGCCCCATTACCTTCCCTTCCAGAGGACCTGAA AAACGTGTTCCACCCGAGGTGCTGTGTTGAGCCATCAGAAGCAGAGATCTCCACACCCCAAAAG GCCACACTGATGCTGCTGCCACAGGCTTCTACCCCGACCACTGGAGCTGAGCTGGTGGTGAATGG GAAGGAGGTGCACAGTGGGTGACGACAGACCCGACGCCCTCAAGGAG
ESTD- CB25	146 A G ---	---	---	GTTTTCTTTCAGACTGTGGCTTCACTCCGGTAAGTGAGTCTCTCTTTTCTCTCTATCTTTCGCCGTC TCTGCTCTCGAACCCAGGCGATGGAGATCCACGGACACAGGGCGTGAGGAGGCCAGAGCCACCTG TGACAGGT[G/C]CTACATGCTCTGTTCTTGTAACAGAGTCTTACCAGCAAGGGTCTCTGTCTGCC ACCATCTCTATGAGATCTTGTAGGGAAGGCCACCTTGTATGCGGTG
ESTD- CB27	125 C T ---	---	---	TTTTCTGTTCCCTGAAGATTGAGCTCCCAACCCCAAGTAGCAATAGGCTAAACCAATAAAAAAT TGIGTGTGGCCCTGTTGCATTCAGGAGTCTGTGGAGTCTGCTCATCAGTAC[C/T]TATCTTC TGATTAGGGAAGCAGCATCCCTTGGACATCTGAAGTGACAGCCCTCTTCTCTCCACCCCAATGCT GCTTCTCTGTTTCATCTGATGGAGTCTCTCAACACCATTTCCATACC
ESTD- D4S338	59 A T ---	---	---	TTTTCTGTTTACCTTGTTACAGATCCTTCAGAGGAATCCCTATATATGCGAGGTATG[A/T]ATGTA TTTTCTTAAACAATAAACTTGAAAGTCCAAAATTACCTTGATCCATGGACTGCAGAATAAATGTTA TTTTAGCTGTCAGAAAAACAATACTAATCTTGACATATGTTTCATCAGAGCCCTTGGGTGACCAGGTGA TTGCCAATAAGCAGTAATATTTTGAGAGGAATCTTGTTTTCAATGACAGTAG
ESTD- CYP2D6	61 A G ---	---	---	CAGGCCAGCGTGGTCGAGGTGGTCACCATCCCGGACAGAAACAGGTCAGCCACCCTATGC[G/C]CA GGTTCATCATTTGAAGTGTCTCAGGGTCCCTTGGCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	40 A C ---	---	---	AAAAAAACATTTTAACACCTTTTCAATCATATACACCAT[A/C]ATTTCATTTTTCACATAAGTCA GTTTGAGCTGAGTTTCCAAATTACTTGCAATCTAAATGTCAACTGATTAATGCAAGTTCAACAG ACAACTTCCCAAGCATCTACGATCAGAAAGGTCAAAATATTACATATCTGGATTAAATTATGCCCA TATCTGCATGTC
ESTD- D17S33b	169 C T ---	---	---	CATCCCCAAGCCCATCTCTTAGCCACTGGCATTTTTCGCCCTCTGACAGATACACTCAGGGCCGT CATGCTGCACACATCAGGGGCGCCCTACCCCTTTGTAGTCCATGGGAAAGGCTCTCTGCGGGCGGTG GGGTTGTGGCTATGTTGGTCTTGTGTAG[A/C]TGGGGGCTTTGGTTTTCAGTTGCACATTGCGTT ATTGCAGATTGCTTGTCTTCCACCTGAGCGAGCCCTC

ESTD- D17S33a	75 C T ---	---	CATCCCCAAGCCCCATCCTTAGCCACTGGCATTCTTTGCCGCCCTGACAGATACACTCAGGGCCGT CATGCTG/CACACATCCAGGGGGCCCTACCCCTTTGTAGTCCATGGGAAAGGCTCCTCTGGGGCG GTGGGTTGTGTGGCTATGTGGTGTCTGTGTAGACGGGGCTTTGGTTTCAGTTGCACATTGCGT ATTGCAGATTGCTTTGTCTTTCCACCTGAGCGAGCCTC
ESTD- D18S8	133 A G ---	---	TTTGAGACCACCTGGCCAAACATGGCGAAATCACATCTCTACCAAAATACAAAATTAGCTGGGTGT GGTGTACATGCTATGTAATCCAGCTACATCGGGAGGCTGAGCGAGGAATTGCTTGAACCCJA /GJGAGGCAGAGCTTGCAGTGAGCCAAAGATCACACCACTGCACCTACAGCCTGGGTGACACAGTGA GACTCTGTCTCAA
ESTD- D3S11	44 G ---	---	AACTGATTAGAACCTGAAAATACATATTTATCTGAAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTTCATCATTTAAAAATCCAAATAAGTACACTGTAATAAAGAAATTTAACAGAAATATCATTTGT TTATCAAACCTATTATCATTATTTATTTATTTAGGTAAGCCATACATAAATTTCTAAAGCATGTTTCTGAAAG TTTA
ESTD- D3S12	37 A G ---	---	AGGTTCCACATTATTGCTGATGTTTGTGATGTTTCCJAGJGGAGCCTTGATGTCATTCTGTATCTCCT CAGGTATCCCACCTTGAGACGTACTTTTCAAAAACCTCTACAGCCGTTGTTGTTATTAATTCAAAGGT TGAACATAAAGTA
ESTD- D3S2b	247 C T ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCTCTGC TGAGTCTTATTCAAACCTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGTATTTCCC AGAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATCTGATGTTCTGTTTCGGTCTTCACGATGG CAGGTATGAAATATAATAATCTGTCTTTATTTGGAAGGATGCCTGGT
ESTD- D3S2a	248 G ---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACATTTCTCTGC TGAGTCTTATTCAAACCTGACAGCCATTTATGCCACCTGAAATATGGTCAGGTTACAGCTGTATTTCCC AGAAGTGAACATACCTGCTCCTAGAACCCAGAGTCATCTGATGTTCTGTTTCGGTCTTCACGATGG CAGGTATGAAATATAATAATCTGTCTTTATTTGGAAGGATGCCTGGT
ESTD- D7S399	83 A G ---	---	TGAATCTTAATTGCTATCTCTACAAAATGTATAAATCCTGAATCTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCC[A/G]GTCTCTCTACATCATCTTTTCAAAACATTTTCATCCATGGACTCCATAC TAGAATATTTGAAGAAACAAACATGACAAACATTTTC
ESTD-DMb	146 A C ---	---	GTGGGGACACCGAGGGCTCCAGGCTGGGGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCTCCACT TCCATGGGTGTGGGGCTGGGACCTCACTGTCTCTGGGAGAGGAGGAGGAGTGGGGAGGAGACA GAATGCTGATTACJCTGTGGTGAGAACCAAGTCTGTGGCTGTGGGTAGGGGAGGAGCTGCTTCCAAAG ACCTCCTGATTGAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAGT
ESTD-DMa	66 C G ---	---	GTGGGGACACCGAGGGCTCCAGGCTGGGGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCTCCACJ GJTTCCATGGGTGTGGGGCTGGGACCTCACTGTCTCTGGGAGAGGAGGAGGAGTGGGGAGGAGAGA CAGAATGCTGATTATCTGTGGAGAACCAAGTCTGTGGCTGTGGGTAGGGGAGGAGCTGCTTCCAAAGA CCTCCTGATTGAGGAAGGGGAGCAGCAGAGCGAAGAGAACAGAGT

ESTD- DRD1	154 C T ---	---	---	TCCCAGCCCTATCGGTCAATTTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAOCCATCAC ACAAACGGTCAGACCCCAACCTGAACCTCGCAGATGAATCTGCCACACATGCTCATCCCAAAAGCT AGAGGAGATTGCTCTGGGIC/TTCGCTATTAGAAACTAAGGTAC
ESTD- DRD2	144 C ---	---	---	TCTGCCTTTGTGAGGAGGCTGCCCGCGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCA GCCACCCGAGAGACCCGGTACAGCCCATCCACCCAGCCACCCAGCTGACTCTCCCCGACCCCG TCCCACACGGTCTCCACAGCACTCCGACAGCCCCGCCAAACCCAGAGAAGATGGGCATGCCAAAG ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	109 C T ---	---	---	AAGACGATGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCATGTGGCGGGCTGGCTGG CACCTGTGAGTCTCTGCCCCACAGGTGTAGTTGAGGTGGC/TACTCAGCTGGCTCAGAGATGCC ATAGCCAGAGGGAGGTGCGTATGCCAAGGGCTTCTGTGAGGAGA
ESTD- ERBB2	93 C T ---	---	---	TCTTTAGGATCCGCATCTCGCCTGTTGGGCATCGCTCGCTAGGTGTCAGCGGCTCCACCAGCTGG GGTGAGGGGGTGGTGGGTGAGTGC/TGGGGCGCGTGCAGACCCACGCGGGCTGGGAGGACTTCA CCCGCCTCACCTCCGTTTCTGCAGCAGTCTCCGCATCGTGTACT
ESTD- ETS2	43 A G ---	---	---	ACTCACAGTCTTTTAAAGTGAATGTCGAGAAAGAGGACCC/A/GGGAAGCCGCTCTGGCGCCTG GCAGTCCGTGGGACGGATGTTCTGGCTGTTTGGATCTCAAAGGAGCGAGCATGTCTGGACACA CACAGACTATTTTAGATTTCTTTGGCTTTTGAACCCAGGAACAGCAATGCAAAAACTCTTTGAG AGGTAGGAGGGTGGGAAGGAACAACCATGTCTTTCAGAAAGTTAGTTG
ESTD-F9	111 A G ---	---	---	AGATCCTGATGATTTTTCCTATTTTCTAAATGTTTACAGTTTGAAGTTTATAGATTTATGCCCA TGCTCCATTTGAGTTAATATTTGTGTAAGTATGATGTTA/GJGTCAAACCTCATTTTTTTTCC ATAGGTATGTCCAAATTTATCCAGCACAAATTTGTTAAACAAAAAC
EST68787 5	144 A ---	---	---	CTTCTATGGGATTTGACTTTATTTCTCCATTTGCTTACCTTTTACAGGTGTTAATATAGTGAAAAG GAAGCTTGACGCTCATGACAAATTTGAAGCTGACAAATACACAAGAAAGGAAATAAATTCACAGTCAA AGAATCAAGCACTTTTGAACATTTGAAGTTGTTTGAACCTGGTGTACCTTTAATTAACAACCTAG CAGACGGAACCTGAACCTCAGGGTAAGAAT
ESTD- GODH	200 C G ---	---	---	CGCAGACCGGTGAGTGGGGTCGGGAGTGTGAGGGAAGGAGGGAACCTGGGGTTTAGGGACT TTCCGGGGTGACTTTCCCGTTCTGTGCTTGCAGAGAAAGCGGGGAGAACACAGAGCCCAACTGGCTAA GTGTAAGGGACCTCTGGTGCACCCGTGTGTTCTGTGCTGCCCTGTTAGCTGTCTGTCTGCCGAGTTC/ G/GACTCTGTCCCGGAAATTCGAGAGCT
ESTD-GCK	88 A G ---	---	---	GTTTTATGATGGCAGCTCTAATGACAGGATGGTCAGCCCTGCTGAGGCCACTCCTGGTCACCATGAC AACCACAGGCCCTCTCAGGA/A/GJACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACCTGGC TGGAGCAGGAAATGCCGAGCGGGCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTC ACCTGCAGCCCTAATTACTCAAAAGCTGTCCCGAGGTACAG

EST34088 2	62 A T ---	---	GTGGGGCAACAGTGGAGAGAGAGGGCCAGGGTATAAAGGGGCCCCACAGACCGGCTC[AT]
ESTD- GNAT2	56 A G ---	---	AGGATCCCAAGGCCCAACTCCCGAACCACCTCAGGGTCTGTGGACAGCTCACCTAGCTGCAATGGCT ACAGGTAAG
ESTD-HT2	154 G ---	---	GACCCCTAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAAACCAC[AG]GGCATCA TTGAAACCAAGTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTCCCTAGG
ESTD-HT5	149 C ---	---	GGGCTAAATTTCCGAGCAACTTTCATAGACTGTTTATTTGACTTGACAGGATTGCTAGAGATAGG CAGGAGAGGAAGATGTGTACAGTTTGTACAGAGAAATAAAGGATAACCTGGGGTTTCTGTGC TTTGCTTCTTACATCCCTGGGAGTTAATAGCTGCAATTTTCAAGAACGGTATACAGGGACAGCA AAGCGAGTCGTGAAGTTTCAACAAGACACACCTT
EST37382 5	124 A G ---	---	AACACAAAGCCCCAGCGAGAAATGAACCTCGGACCCCTGGTTTACAAGACCAGTGTCTAACCCCT GAGCTATGGAGCCCTGCTGCTGTTGTTTCTTCTTTCATCTTATAGATTGATGTTATGCTOCTA GCATTCGGGCTACCGAATAGGATGTTAGCTTGAGTAAATTCAGGATATTCTCCTACAAATGAAA ACATTTTCGTGCTCTGTAATCCCTCGAAAAGGTTCT
ESTD- IGFBP1	43 C T ---	---	CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCCACCCCTCTTTCTCTCTCCCTTGA CTTTGAGTCAAAATGGCCTGGACTTGAGTCCCTGAACCCAGCAAAAGAGAAAAGG[AG]CCCCAGA AATCACAGGTGGCACGTGGGCTACCGCTACCGCACTCTCCCTCTCACGGGAATTTTCAGGGTAACT ACCCAGTGGAGCCCGCTCATTTGCACGGTCTTGGCAGGAGTGCTCTGGGAGAAAGGAAGATG TTCCAGGGCACATAGCTTAGTGGAGACTC
ESTD- IGHV4-6	120 C ---	---	TTTACTATTTCAATGGATACAGAAATTTGGGAGTGACTATATTCCTATGAACAAAAATTCAGATTT CAGTGTAAATAATGTTGCCTACATTTGTGAGTGACGGGCGAGTGGTGATCCGAGAGTGTGTGGG TGCACGGACATAATGATTCAGAAAGCAATATGGAAGATGAGTATCTATGATACGAACTGAAAGT ATGTAATACTTCACAAAATACATAAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	110 A G ---	---	CAAAGTAAGCACCCCAATAAATGTTAGCTATTACTATCATATTATTATTATTTATTTTGT AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGAGTGG[AG]CAATCTCGGCTCACTGCAAGCT CTGCCTCCTGGGTTTCATGCCATTCTCTGCTCAGCCTCCCGAGTAGCTGGGAATACAGGCACCCGCC ACTGTTCCCGGCTAATTTTGTATTTTGTAGTACAGACGGAGTTCACCGT
ESTD-IL1B	99 A G ---	---	CCACTTACAGATGGATAAATGGGTACAATGAAGGGCCAATAGCCCTCCCTGTCTGTATTGAGGGTGT GGGTCTCTACCTTGGGTGCTCTCTGCTC[AG]GGAGCTCTCTGTCAATTGCAGG
EST74082	134 A T ---	---	TCCAGGGTGGTGGACCCAGGCCCCAGCTCTGCAGAGGGAGGACGTGGCTGGCTGTAAGCATG TGGGGGTGAGCCAGGGGCCCAAGGCAAGGCACTTGGCCTTCAGCCTGCTCAGCCCTGCCTGTC[AG] TCCCAGATCACTGTCTCTGOCATGGCCCTGTGGATGCGCTCTCCCTGCTGGCGCTGCTGGCC CTCTGGGGACCTGACCCAGCCGAGCCTTTGTGAACCAACACCTGTGCG

EST45311 0	151 C T ---			<p>GCCCTCCTCTCTCCAAATCTGTCCCTATAGTTTCTCTATTAAAGTGAACATACATGCATTCTTTAGT GGATAGATGCACACAAACACAAAGCCATTATGGGAAGGATCCACGCTGTGTGGCCATATTGTAACA CATTTTCTGCAAAATC/TACCTCTTTTCAATTAACAGCCCTTATCAATGGCCTTTTCTTTTTCAGTA GTACATACACATCTGTGTCATTTGTTGAAT</p>
EST65258 8	80 A G ---			<p>TGCCCCATCAGCGCGGAGACATGGCTTGCACAGCTCTGAGGATGTCACCAATTAACAGAAAT CCAGTTATTTCCJAG/CCTCAAAATGACAGCCATGGCGCGGGTCTCTGGGGCTCGTCGGG GGGACAGCTCCACTCTGACTGGCAGATCTTGCATGGAGACTTGAGGAGGGGCTTGAGGTTGGT GAGGTTAGGTCGGTCTCTGTGCAAGTCAGGACATCAGTCTGAATAA</p>
EST38216 3	26 A T ---			<p>ATGCAGGATGAAGGTGGACAGGGAGG/TGAGGGCCAACTGTATCCAGGGCCTGCAGATGTCG CTGGACTATGGGTTGTGACCCCACTGACCTCCATGAGCATCAGGG</p>
EST62782 ESTD- KRT10b	149 G T ---			<p>ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATATTAGCATTTGTTTAGCATACCTAA TTTTTCTCTGCTCCATGCAGACTGTAGCTTTTACCTTAAATGCTTATTTTAAATGACAGTGGAA TTTTTTTCTCTG/TAGTGGCAGTATCCAGAGTTTGGTTTTTGAACAGCAATGCCTGTGAA AAAGAACTGAATACCTAAGATTCTGTCTGGGGTTTTGGTGCATGCA</p>
ESTD- KRT10b	183 C T ---			<p>CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAAGTCTAAGTTTTTCCATTAAACCACTATTACTTCTAAG AGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGT/C/TGTGCTTTTAAATAGT CTCTGCCAGATACATCTCCCTATATAAGTTATAACCAAGTATTGATA</p>
ESTD- KRT10a	133 A G ---			<p>CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAATGCATTTTAAAGTAAGTCTAAGTTTTTCCATTAAACCACTATTACTTCTAAG G/GAGAACTGTACATGACAAATATTGCCATTACATGAGATCAACTATGTAGTGTCTTTTAAATAGTC TCTGCCAGATACATCTCCCTATATAAGTTATAACCAAGTATTGATA</p>
ESTD- KRT8b	231 C T ---			<p>ACCCTCACCCCTCCCTTAGCCGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGTCTTAACAGCAGGGCTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCCATCTCTCCCGTCTCAGGTTTACCA/C/TGTCAACATTGACACA</p>
ESTD- KRT8a	21 C T ---			<p>ACCCTCACCCCTCCCTTAGCC/C/TGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATC GGATTGGACACCTTGAGAGTCTTAACAGCAGGGCTGACATGAGACCTCAGACAGAACTTTCTAGAG TTTGCTAGAGGTCAAGGGTCAAGACTAAAGAGGGGCCAGAAATGTTAAGTACAAAAGTGAGGCCCATAG GGCTGCCATCTCTCCCGTCTCAGGTTTACCACGTCAACATTGACACA</p>
EST75099 6	82 C T ---			<p>CACCTGTGTGTCTAGATCTCTCAGTGGCGCCCTCTACTGGTTGACTCCAACTTCACTCCATCTCA AGCATCGATGTCAA/C/TGGGGGCAACCGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCCCACC CCTTCTCCTTGGCGCTCTTGAGGTGTGG</p>

ESTD- LF79	142 A G ---	---	GGGTGATTTGAGGCTCAGTTAATTTCAAATTTGTAACCGTAGCAAACTGCATTTGGTATTTAGA AAAAATAAAAAATTTCCAATATGTAGTGTGTGTATACCTGCCTCTGCCATGCAGCATCATAGCCTGT GGGAACC[G]GGAGGGCTTCCCTTACCACCCAGA
EST35879 9	142 A C ---	---	GAGATCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCTCCCAATCTTGTGCGTTCCACCGATG GAACCTGCCGGCAATCCTGACACGTGTGCCACCGGTGTACCCAAATTAGGTGAACATGGCTTCGAG AGAGTTG[A]CAGATTCTCTGGAAGACACAGCAGCGGGATGGGGGCAGGAGAAGAGCTGCCTGGATGA A
ESTD- LMP2	35 C G ---	---	TACACACTTTCCTTACCATTCACTGAAACGACT[C]G/GCAAACTGGAGCCTTGTAGGAATGGAGT TGACCTTCCCAAAAGCCACTATGATAAGCTATTGGTG
ESTD-LPL	113 C T ---	---	TGTCAGTGTCCCTAGGGGCACCTCACCTCCAGCTTCTTCAGCTCTGGCTGTCTGCTGCCTGCA AGGTTTGTCTTAATCTCAATTCAATGCTCTTCATCTTTAG[C]TAGCTGTGGGTTTTGTGTTG TTCTCTGTTTTGCTTAGTATCTGACTACTTTTTTAATTATAAAAGAGATGTATCTAAACAAAATAG AGATTGTATCAGAACTTCAACAATTTAATAAAATTTTTCACCTG
ESTD-MCC	45 C T ---	---	TTGTCAGGAGTGTCTGATGCTGCCCTCCCGAGCTCTGCCCTAGC[C]TAGAATTCAGGACAACGTGC AG
ESTD- METH	118 C T ---	---	CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAAGCAGTAACACAGCATGCATCCCCGAA TCTCAGGAAGTCTCTGTCTTTCCAAAGGTTTTGCTCAAGTTGCTGATTACCC[C]TGGATTTTCTGACG ATCTTCAACTGCTAGAGCATCTGTGTTCTGTTTAGCATGG
ESTD-NF1	25 A G ---	---	ATTATCCAGATGAATTTACAAAAC[T]A/GTACCAGATCCACAGACTGATATGGCTGGT AACATGGACTTGTATATTTGTACAAAAAAAGTTTTATTTTCTAAAAAAAGAAAAAGAAAGAA AAATTTAAAGGGTGTACTTATATCCACACTGCACACTGCCCT[A/G]GCCCAAAACGCTTATTGTGGT AGGATCAGCCCTCATTTGTGCTTTTGTGAACCTTTTGTAGGGGACGAGAAAGATCATTGAAATTTCT GAGAAAACCTTTTAAACCTCACCTTTGTGGGGTTTTTGGAGAAGGTTATCA
ESTD- NFKB1	107 A G ---	---	TGTCCTAGGCCCCAGCCCTGCTTGTCTCCTCCCTGGCTGTTATCT[C]A/G]G]TACTGCAAAGAGAACACA GACAT
ESTD- NPPA	45 A G ---	---	GTGTTTTCTTAATCTTTTCCAGGAACACAGTGACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGGTTTCTTTTATGAGGTGATATTGGATACITTTTGTGATTATATATAGCAATTTGAGGG ACAAACCAGATAGGCAGAAATGGGCTTGAATAGTAGATGCTTATTTAACCTTGGCAATAGCATTG C/T]ATCCCTGTGGTTTTTAATAAAAT
ESTD- NFRAS	202 C T ---	---	GCCACCAACCCCAACCCAGCACACCTCCACCTCAGCCAGACAAGTTGTTGACACAAGAGAGCCC TCAGGGGCACAGAGAGAGTCTGGACACGTGGG[A/G]GTCAGCCGTTGATCATCGGAGGGCGCGGG CACATGGCAGGGATGAGGGAAGACCAAGAGTCTCTGTTGGGCCCAAGTCTCTAGACAGACAAACCC
ESTD-PAI1	100 A G ---	---	TAGACAAATCACGTGGCTGGCT

ESTD-PAR	120 A	---	---	CTCTTCAGGAACCAACAGCTCTTACCAAAACAGCATTATTGCTGTCGAGAGGTACAACCCGTAGA ACTTCTCTTAAGTAAATTTAGTTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATACTGCCT AATCGACTGGCTTCAITAGCTGTGAGTGTTTCTTTCACITTTCTGTGTTCTAGAACGTTTCTAG GACTGGCAGTTTAAGCTTTCACITTAGCTTCTGTATACCCATGCC
ESTD- Per/RDS	74 A	G	---	ACCTACAGACGTGCTGGATGGTGTGTCCAAACCCGAGGAATCTGAGAGCGAGAGGGCTGGCTG CTGGAGA[A/G]GAGCGTGCCGAGACCTGGAAAGGCTT
EST68308	5	29 C	T	GGAAAGAGATTTAAGAAGCTTGATTTGGA[C/T]AATTCCTGGTTCTTTGAGTGTGAAGAGTTTCATGTC TCTGCCTGAGTTACAACAGAAATCCTTTAGTACAGCGAGTAATAGATATATTCGACACAGATGGGAAT GGAGAAGTAGACITTTAAAGGTAAGAAAGTAGTATTATTTTA
EST54045	6	39 A	G	GGAAATATTAAAAATATTTTAAATACCTCCATTTTGCTT[A/G]TCTTTTAGTGAAGATGATACCTGC AAAAACATGGCTAAAGTTATGATTGTCATGTTGGAAATTTGTTTCTTACAAAATCGGATGGGAAA TCTGTTAAGTAAGTACTGTTTGGCTTGGAAATGGATTTTAAATGTTGACTTTATCAT
ESTD- PXP1	88 A	G	---	ATGAAACATGGTTCTTTAAATTTATGATATGTTTGTATAGCTATCTTAAAGGGCTTCTTTTTTTTA ATGCAGAAAAGAGGGGAAAA[A/G]GAGCGAGCTGTGGTGACAAAGGTGTTTCTCAAGGCTCATAC AGATTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGGTAAAGTCTTATGAAATTTATAATCTT
ESTD-RDS	127 A	---	---	CCCGAGGAATCTGAGAGCGAGAGCGGGCTGGCTGTGGAGAAGCGTCCCGGAGACCTGGAAGG CCTTTCTGGAGAGTGTGAAGAAGCTGGCAAGGCAACAGGTGGAGCGAGGGCGCAGACGCGAGG CCAGGCCACAGAGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCCGAACACTGAGAAATAGTGCACT CCAAGAAACGTGGATCTCCCCCTCATCCAACTCCGAAAGTCTGAA
ESTD- s14544	94 G	T	---	TTGGGAAGTTAGAGCCATATTAATACGGAATTAAGGCAGGACACAGAGGCTTAATTGAAAA TATCCCAAAAGTTGAAATGCTCAGTT[C/G]TGTGTGGGTTAGATGCAGGATTTATATGATCCGTTA ACCTCT
EST52908	45 A	C	---	ATCACAGTCTGTGGTCTCTGGCCATCATTTCTCTGGGAGAGATGG[A/C]TGGTGTGCAAGCCCTT TGGCAATGTGAGATTTGATG
EST19590	55 C	T	---	AGGAGAAGCTGAGGAGGGGAAGAGAGACAAAGAAATGACATTGATGAGTGAAGATGTT[C/T]GGCTCAG GATGCCGGAAAAATGAC
EST76136	39 C	T	---	TGAAGCTTCTGCCAGCTTGCAATGTTTCTAGGAGAACCC[C/T]GCGTCATACCTTTATCTATAGCCTT CCCCTAGGTCTT
ESTD- SPTB	176 C	T	---	TGAACACCCCTGTGGTCCGAGCCAGGTTGTGTTCTCTCTGGAGCCGTGAGGAGTTTGTGTGTGTG CAGTCCCCCGCCACCTGCTGGTTGAGCCTGGACATACACCTTACCTCTTGGCCCGGAGAGAC ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACA[C/T]CCTCTGTGAAGACCCCAACCCCTGC CTCCCCACCCCAAGCCAGTTTCTAGCAAGGGCAGGAC

ESTD-TAT	224 C	---	---	AAATGGTCAGGACCCTGATCCACAAGAGTGGTACCATTTCATCAGGGGCATCAGTTCATTACGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTTCATTTCATTTAAATGACTTGTGGGACAGGATCA ATTTCTCTCACCCTAGAACGTTTGTTTACAACTTTTCTCCAGATGGATGGGATTATGATGGGGG GAGAAGCAAAATTTAAATAGGACCCATGAGACACATCA
ESTD- THR8	125 A C	---	---	TGGGGCTTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTGATTTCAGAGAAAGAGTCCCAAG CACAGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAAATCACACAGGATC(A/C)TTTCAT CCACACTGGATTGGCCCAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCTGTAGATGGG TAGTGAAGTTTTCATCTCTGTCAGCTTCTGGATTCTTGTCCACCCGCAACAAGAGTCTATGC CAAGGCAGAAAGCTGGTCTTCATGGCAAAATCAATGTCTCTCCAGATTTCAGTATCCCCAA GCAGTGCATCCATTGACACATAATATGCATCCAGACAAGAGGTCATAAATATTGATGTCGTTAAA CATGGGTGTGATCCATTTTTCATTTGGCCATAGGTCCCTATGGGGATGACA
ESTD-TYR	122 GT	---	---	AGTAGTGGATGAAGCTAACCGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AACTCCAGAAATCCTAATCAGTCTGTGCTTAACAAATGCCCTACTCTTATGCATTAGTATCACAA AACCACCTGGTTGAATATAATAGATTGAGTTTAACTGTATTTCTTTCACITTTATACCTTCTTTCT AATACAAGCATATGTTAG(A/C)ATTAAAGTCTAGGCATACCT
ESTD- TYRP1	222 A C	---	---	AGTAGTGGATGAAGCTAACCGCCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGCTTAACAAATGCCCTACTCTTATGCATTAGTATCACAA AACCACCTGGTTGAATATAATAGATTGAGTTTAACTGTATTTCTTTCACITTTATACCTTCTTTCT AATACAAGCATATGTTAG(A/C)ATTAAAGTCTAGGCATACCT
ESTD- VB12	148 C T	---	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTACAGAGACAGGAACACCCAGTG ACTCTGAGATGTCA(C/T)CAGACTGAGAACCACCGTTATATGTAAGTATCGACAAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12b	148 C T	---	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTACAGAGACAGGAACACCCAGTG ACTCTGAGATGTCA(C/T)CAGACTGAGAACCACCGTTATATGTAAGTATCGACAAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT
ESTD- VB12a	74 A G	---	---	TTCCCAAGGCCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTTGTTTCTATTACA GGACAC(A/G)TGGATGCTGGAATCACCCAGAGCCCCAAGACACAAGGTACAGAGACAGGAACACCA GTGACTCTGAGATGTCAACAGACTGAGAACCACCGTTATATGTAAGTATCGACAAAGACCCCGGGC ATGGGCTGAGGCTGATCCATTACTCATAT

EST58607	105 A G ---			CTCTGGATGGGTTACAGGTGGCAGGCACAGCCAGTCCATCCTGTAGTCATCATAGTTGTTGGCTCC CAAGTTGCTCTCTCACTGGAGAACAGGACAGCCAC[A/G]TGGCGGGGATGGCCGGCGGAGTTC TGGTTGGCGCCACGGCTGTGGCTCGTTGTGAACGGTAGCCTTTGGCGTTGCGATGCCTAAACCTTTGT TTCTTGGCCAAAGGAGGGGGGTGCCATGCCCTGAGATGTAGATGGGGCC
ESTD-VWF	36 G ---			AGGTAGAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGACCTACCTCCACACTGTCCTTTGG TCCCTAGAGTCTG
EST71770	189 C G ---			AGCACACCTCTCAGCTCAAGCCTCAGCACCATGCTGTCTATAAGGATGACGTGCTGTTTTACAA CATCTCTCCATGAAGAGCACAGAGAGTTATTTATCTGAAGTCOOGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAACCACTGCAGAGTACCAG[C/G]TGTGGTGGA AGGAGTGCCCAAGTCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAAGG
ESTD-TNFab	152 A G ---			TTCTGCATCTGTCTGGAAGTTAGAAAGAAACAGACCACAGACCTGGTCCCCAAAAGAAATGGAGG CAATAGGTTTGGGGCATGAGGACGGGTTACGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAAAGACCCCTCAGAAATCGAGCAGGAGGATGGGGAGTGGGAGTGTGAGGGTATCCTTGTATG CTTGTGTCCCAACTTCCAAATCCCGCCCCCGGATGG
ESTD-TNFa	88 A ---			TTCTGCATCTGTCTGGAAGTTAGAAAGAAACAGACCACAGACCTGGTCCCCAAAAGAAATGGAGG CAATAGGTTTGGGGCATGAGGACGGGTTACGCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAAAGACCCCTCAGAAATCGAGCAGGAGGATGGGGAGTGTGAGGGTATCCTTGTATGCTT GTGTGCCCAACTTCCAAATCCCGCCCCCGGATGG
EST52418	113 A G ---			CAATTACAGGGTCAACTGCTATGATGTGTTGGAGCCCAGTCACCCCTTGGTGGCTACAAGATGTCG GGGAGTGGCCGGAGTTGGCGGAGTACGGGCTGCAGGCATACACT[A/G]AAGTGAAAACCTGTGAGTG TGG
EST13586	89 A G ---			CCCACCTATTGGCCAGCCCCAGGGACAGAGCTGATCCTTGAACCTTTAAGTTCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCC[A/G]GGGCTGGCTTATCAGCCTCCAGCCAGCCAGACCCCTGGCTGCAGA CATAAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCGTCTGCTGCCTGCC CCGGTCACTC
EST51976	123 A T ---			AGGCAGAAACTGGGGCCCCATGCGGGGACGTGGAAGGCCACTTGAGCTTCTGGAGAAGGACCTGA GGGACAAAGTCAACTCTTCTTCAAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAG[A/T]CTCTC CTCCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGCAGCAGGAGGAGGTCAGATGCTG GCCCTTTGGAGAGCTGAGCTGCCCCCTGGTGC
EST11458	140 A G ---			CCACTTTGGTAGTCCAGTGTGACTCATCCACAATGATTTCCAGTGTCTATCTTCTCGAGTTTT CTCTGCCATGTTGCTATTGACGACGGACCTGCCCCAGCCAGATGATTTACCATTTTCCACAGTGGT CCC[A/G]TTAAACAATTCTATGAGCCAGGAGAAGATACGTATTCCTGCAAGCCGGGCTATGTG TCCCAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC

ESTD-AT3aa	60 C T ---	---	AGACCTCAGTTTCCTCTCTGTATAAAGGGAAGTTTGTTCTTGATCTCCATGGGCCACGCTTAGCACTGGTGCCCTGTGAGTCTGTATCAGGTAGAGGATGGACACAGGTGGAGGAATTTGAAAGGGCA TTGGAATTCAGAGCAAGAGACAGATATTAAGAGCTGGGAAATGTGG
EST398528	106 C G ---	---	CGGTCCTCCTCCAGGTATTGTCAGAAGGCCGAGATGACCTCTATGTCTCAGATGCAATTCOCATAAG GCATTTCTTGAGGTGAGTACACCTTCCCACCTCTCTTAC/GJGJGTACAGAAAGGAGATGCATGAACA GCAGGAACACGTGGAAAGGCCTGTTTCCAGTGTTAAGGCATGCAAAAGGCCCTCCACAGGCTGCTAT AATACAGCCCT
EST624480	112 A G ---	---	ACCTGGTGTGCTGGTGCTGTGGTGAACCTGGTCTCTTGGCATTGCCGGCCCTCCTGGGGCCCCGTGG TCCTCCTGGTGCTGTGGGTAGTCTGGAGTCAACGGTGCTCTTGA/GJGTGAAGCTGGTCGTGATGGCA ACCCTGGGAACGATGGTCCCGCAGGTGCGGATGGTCAACCCGGACACAAGGAGAGCGCGGTTACCC TGGCAATAT
EST360272	120 A C ---	---	AGTGACTCCAAGGAATGGCTACCCAACTTGCCTTCATGCGCTGCTGGCCAACTATGCGCTCTCAGA ACATCACCTACCACCTGCAAGAACAGCATTCATACATGGATGAGGAGACTGGJAC/JAACCTGAAAA AGGCTGTCAATCTACAGGGCTCTAATGATGTTGAACCTGTTGCTGAGGGCAACAGCGTTCACTTAC ACTGTTCTGTAGATGGCTGCTCTAAAAGACAAATGAATGGGAAAGACAA
ESTCOL2A1cc	112 A G ---	---	AGATGTATATAGTCCTCAAACTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTTATGCTCTCTTTCCTGTCACTTTC/JAGJGGGTGTTCAAGGTGAAAA GGTGAACAGGGTCCCGCTGGTCTCCAGGCTTCCAGGTAAGTCAACTCAAGCATATACAATACTGCGCT TTGGTCAGCCTATTGAGCTGTAAATCACCATACCGTACCT
ESTCOL2A1dd	97 C T ---	---	TGAGAGAACACCTAGTCTCCATCCTTCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGCTGGGACCTGGAACA/CJTJGGACTTCTTCTACTGCAGCAGACAAGACTTA CCCAAGAGAGATTAAATGGCAAAGATATACAATACAATTTTATTTGACCAAAACACTATCATGGAACA GCATT
ESTCPT2	150 A G ---	---	GCCGCAATGCCCGGGAGTTTCTCCAATGTGTGGAGAAGGCCTTAGAAGACATGTTTGATGCGCTTAGAA GGCAATCCATCAAAAGTTAACTTCTGGGCAGATGAAAGCTACCATCCTTCTCCTCATCATGAAAAAC TGGAGGCCGGGCATJAGJGTGCTCATGCTGTAAATCCAGCATTTTGAGAGGCTGAGGGGGTGGAT CACTTGAGGTCAGGAGTTTGAGACCAACCTGGCCAACAT
EST122740	135 A G ---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGCTTCCAAATAGAGCCTTACCAAAGTGAT TACATAAAGAAGTCAAGTGTTTTTACTCCTCATGACCAAAATATCTTCCCTCCTTAGGATGAGGTGJ A/GJTAGTAAATGACCCGATGGGTCAGAACTGTTCTGTCAACCATGGAGGATACTATAAAGTGTGAAGA TAAATTCAGCCACAGAGCTTGCCAGATC
EST76807	91 G ---	---	ATGCTAAGGGGATCGGACATGAAAGGACCCTGTGAGCCGATGTCTCTATCTCCAGCGGCCCTGTCATC CAGCTCACTCATCAATGGGCCAGTCAGGCCAGGCACTGGGCTCCGGAGGACTCAACCACTGCCCCCT GCTGCCATGTGGACTGGTCAAGTTGAGGACTTCTTG

ESTD-SSA1	111 C T ---	---	TTACATTTGTGGATTGTTCTTTGCTGTGCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAGTTTGGCTGGCTGTGCTTGTGGGATATTGAAAGAGATC/TJTTGCCAGTCCAATGTCTCTAGA GAGTTTCCCAATGTTTCTTGTGTAATAGTTTCATAGTTTGAGGCCCTAGATTAAAGTCTTTAATCCATT TGATTGATTCTGTA
ESTD-RVRI	109 A G ---	---	CTTCGTACGGGAGGTACAGTCTCCGCCCTCTTTCATGGACATATGGATGAGTGTCTGACCATTTCCCT CTGCTGACAGTATGACACGACGACACTTGTCTACTATGAG/GJGGGGAGCTGTGTGACATCATGCC CGTCCCTCTGAGGCTGGAGCCACTGAGATCAGCTGGAGTGGAGCCACCTGCGCTGGGGCCAGCC ACTCCGAGTCCGGCATGTCTACTACCGGGCAGTAOCTAGCGCTCACCGAGG
ESTD-WT1	70 A G ---	---	AAGACCTACGTGAATGTTTCACATGTGCTTAAAGCCTCCCTTCCCTTACTCTCTGCTGACGAGTGTG CG/GJCGTGTGCCCTGGAGTAGCCCCGACTCTTGTACGGTCGGCATCTGAGACCAGTGAGAAACGCCCT CTCATGTGTGCTTACCCAGGCTGCAA
ESTD-F2	100 C ---	---	GATAAGTACACTGAGGCCCCAGGAGGTTATTGCCTAGTAGCCCACTGTGCATGCACGCTTAACCTCT GCACCAATGGCTCCAAAGGCCCGTAGGGGAACTGGGGGATCTAGGGGATGGGTGAGGAATGGCCC AGCCAGTCCCGCGGTGCTGGGTCCCAACAGAGGAGGCCGTGGAGGAGACAGAGGATGGGC TGGATGAG
ESTD-PBDA	103 A G ---	---	GCAGCCAGGAGCGCGTGCACCATGCCCGCATAGATGCGGACCTCAAGCTCGACTTCAAGGA/C/TJG TCCTGCTCCGACCTAAGCGGAGCAGCCTCAAGAGCCGAGCGAGGTGGG
EST12839	122 A G ---	---	CCTTCTCATGCCCCAGATGGAATTCAGTCCCTTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGT CTGAGCCGTGGCTGGAAGGCGAGGACTAATCCAA/GJTTCTTCTACCCGAGCTTGCTCGCATACAG ACGGACAGTGTGGTGGCAACATTGAAAGCCTCGTACC
ESTD-CTLA-4	48 A G ---	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAAATATGGTCTCTTTGCT CCTAACATCTATGTACTGGATTATCTAAATGAAACACACAGCAGCTTACTCCAGAG/GJTCAAAGTCCA AGGCCATTGGCTATCTCAACACTGGTGAGTGATTACTTGAGTAAGGGAACCTTGAATGTTATTCAAC TGGATTCCAGTAGGTTTCAGTTACTTATGAATATTATGATACTTAGCTTAG
ESTD-ACE	96 C T ---	---	ATGGCTGCCCTTGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCT/GJCCAGGACCTGGCCCTG CACTCTCCTGTTTTCTTCTCTCATCCCTGTCTTGCAAGCAATGCACGTGGCCAGCCTGCTGT GGTACTGGCCAGCAGCCGAGGCATCGCCAGCTTTGTGTGAGTATGCATCTCCAGGCAAAAGCCAC
EST54419	88 A G ---	---	GATCAAGCAGTGCACACGGGTACGATGGACCAAGCTCTCCACAGTGCACCATGAGATGGGCCATATA CAGTACTACCTGCAGTACAAGGATCTGCC/C/TJGCTCCCTGCTGGGGGGCCAAACCCGGCTTCCA TGAGGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCTGAACATCTGCACAAAATCGGCCTGC CTCTGCCTAATTTGAATGATATTGTTGCTGTGGGACCTGAGGACCTTTATGGCACAAATGATCACTA TTTCTTGACCCCTACTAC/GJATCCTGGGAGATGTATTTGGGTTTAGCGTGGTATGTTGTTGCTA CTATAGTCCAAAGTGAA

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ESTD-PS-1	99 A G ---	---	GGGAGTAAACTGGATTGGAGATTTCATTTCTACAGTGTCTGGTTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACACACCATAGCCTAGJTTCGTAGCCATATTAATTGTTGTGCCTTAC ATTATTACTCCTTGCCATTTTCAAGAAAGCATGGCAGCTCTTCCATCTCCATCACCTTTGGGCTTGT TTTCTACTTTGCCACAGATTATCTTGTA
ESTD- B3AR	104 C T ---	---	GGCTGCCAGGGTTCCGTGGAGGCGGCGCTAGCGGGGCOCTGCTGGCGTGGGGTGGTGGCAACC GTGGGAGGCAACCTGCTGGTGCATCGTGGCCATCGCCCTGAGACTCCGAGACTCCAGACCATGACCAA CGTGTTCGTGACTTCGCTGGCGCGAGCGACCTGGTGATGGACTCTGCTGGTGGTGGCGCGGGCGCA CCTGGGCGC
WI-567b	48 A G ---	---	TCTCACACTGACCCCTTACCTTCATCCTCACCTCTGCTGCCTTGGTTCAGJAGCCCTCATCTCTTTTA CAGGATCCGGCACAGCATCCCAACTGATCTGGCCTTAGGTCTTCTTCCCAATCCATCTTCAAAAG GCTGCCACTGTGATCTTCCCAAAGGTGATCTGATGCTACCATCTTGCITCAAGCC
WI-801c	58 G T ---	---	ATGGAACATTTCTCCATAATGAATGAGTTCTCAATCCATTACACATCCCTTTCTGJAGATGG TATTGGAGAAGTAGACAGAGAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCAACAGAGATTAA CATTTCTGCCACCCCTC
WI-801b	58 G T ---	---	ATGGAACATTTCTCCATAATGAATGAGTTCTCAATCCATTACACATCCCTTTCTGJAGATGG TATTGGAGAAGTAGACAGAGAGAAATTAAGTAGGCAATGCATGTTGCAGGGGTGGGGCTGTGC ATCTGTGATGTTAGTTACATGGGCACATATACGCTCATGTTTGTCTCAGCCCAACAGAGATTAA CATTTCTGCCACCCCTC
WI-1099b	76 A G ---	---	GAAATTACACCTATACAAGAACTATTTCTCTAATTATTACATTAGTCTCATTTCTGAAATATTAT TTTTTACAAGJTACCCCTTGATTATTTTGTATTCATTGTGAACGAGAGATTACAATATCAGTAACGC TGTTCAATTGATGCTATCACAAATGTCTAAATACCTTTTGGGTCAACATCAAAATTAGAAAAGAAA CTTACAAAGTTTATTGCTTTATGGTTTA
WI-2529	71 C T ---	---	AGGAAATGGCTGATACCTCCTGGTGGCTTCAATTAGTAAAGGAGATGTAATTGCTGATGAGCCTCT CAA[C/T]TCTTAAGTGGCTTCAAGTCAAGTGAACATTTAATGAAGTCTACACAAATTAATTAGTGT AAGTTGTAATGCTGAATAAGCTTGAATAAAGTGAAGAGGTAAAGAAAGGAGACAACTGTGCTTT TTAAGAAATAGAAGAGTCACTTTTCATTAGAAATGGCTTTGGGGATGACAAGTA
WI-10088	205 C G ---	---	TAAGGGCCTGTCTTCCCCAGAGGCCCCACGGGACAGAGAAAGCATCTTGATACCCAGGGCCACAAA TGAGCAATCCATAGATACATATAAGAGAGACCTGTACCCCTATGAGGTAACCTGAGGATGAAGGA GTGAGTCATATTGGTGGCAATTAATGACCCAGCCTCTCTCTCAAGAAGAC.TTTTACATTTTAGAC AGG[C/G]AGCAGAGAGCAGCAAGGAGAAAGGAAGT

WI-2625	98 G A ---	---	---	GGG CAG T C C T G G C T G T A G T G G T A G A C A G C A C T G A A G G A T G G A G G A G A G A A A C A G C A G A A G C A C T G C A G G C A A G G C T T A T T T A G G A [G/A] C A A A T T G A T G A T A C C C T G A G G A C T G C A G A A T T A C C A G C A G G G T T A T C T G T G G T G A A T T C A G T T A T C C A C T T G C A G G A A G C C A G C A G C A A A G
WI-2924	54 G A TAGG	---	TGACCTTCCTA GTCTTCTCTTA	TCTGTTGTCATATTTCCCTCTTTGACTCTGACCTCCTAGCTCTCTCTTATAGG[G/A]ACCCTTGATTT ACACTTAGGCGCTACCTGGATTATTTAGAACAAATC
WI-2939	72 G T GTGCCITT	---	GGCTTGCTCA GTGCCITT	CCATTGTTGAGGTTGGGTGGGTCACCTTGTCATTCCTCGCCTCAACAAAGTGCGTTGTCTCAGTGC CTTT[G/T]CAAGACCTTCCCTCAACAAGAATGCTTTCCATGCTCCCGTGTCTTTGAAAAATTGGACT TTATCCTGAAAAACCTCAGCTGCAGTGTTATCTCCGGTATAAAGCCACTCCTG
WI-3203	99 G A AGACGAG	---	GGTTATGCCGC AGACGAG	CTTGCTACCATGCAATTCACAGCATACAACCTCAGTGAATGCCGTAACCCCATTTATAAAACAT CTTGCCATCGAAGGGTTATGCCGACAGAG[G/A]CCACACAAGGCAATACTTGAAGTGACTTGGA GAATAAGATTTTGGATGGATGAAGCAGAGAGAGATGCTAAAAGTGA
WI-3473	101 A G GCCCTAGGGA	---	AAGCATTTTA GCCCTAGGGA	GGAAAAAGAAACCTGAAGGATGAGTAGAAGTTAAATGGGAGATAGTTGGTATAGGCCCTGTTTGGA GATTGCAGAGAAGGAAGCATTTTAGOCTAGGGA[G/T]AGAAAATGTTGGTGACATCAGGGCT ACACACTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGCGTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTGGCTCCCC
WI-1796b	29 A G ---	---	---	ACACACTTTCTGTATGCTCTTCATCAAA[G/T]GCAGGCGTCATTTCTGCACATGGTGATATTTAAG CAGGAGAGCATTTGCTGGCTCCCC
WI-1796	29 A G ---	---	---	AGTCGTCCATCTTCAGGGTCTAACTCTGGATCTGGCCTGCAGAGTAGGAAAGAAAGATGGGGTGA AGTCACATTAGGTATTTCCAAATAA[C/T]AAAATGCCCTCTGAAAAATATCTCTCCCATGTCCCTGTC TAAATATAACATTTTCCC
WI-4360	93 C T AAATAA	---	GTAGTCACATT AGGTATTTTCC	GCTGAGCTTTGTGGCAGAGCCAGGACAAATTCAGCTGCCGGAATTTTAATAGATTCCTGCAGCACTGCAA CAGGAACCAAAAATCAGT[C/T]GGGTAACTGAGAGTGGTTTTCACACCCAAA
WI-1959b	87 C T ---	---	---	GTTGTCCCTGTAGCAGACACAGAGGCA[G/T]AGAGGAAAAAGCCCTTTTGGTCCAGGGGCTTACAC TGAATCCCTCAAAACAATGCAAGATGAGCTAATGGTCTTAGAGGTATAATCTAAGTGTGAGAAAAACA AAGGTATAGGGTTTG
WI-1973b	28 A G ---	---	---	CTTGAGTATGCGTGGATTTGGTATACACAGAAATGGGAGAGCTGGAACTAATCCCCCATATACCA AGGACAAAATGTATCTGTTCTACAAATTATACAGTAGGAGACATTATGTTCCATGACAAATGGTAAT TTTTAA[C/T]GACAGTTTTTAATAGTGAAATACCATAAAAAATAATAATAGTAGCAGCTAATATT TACTGAGCTGTTACTAGGTGCCTATAAATAGC
WI-1980b	140 C T ---	---	---	

WI-2015b	190 A G ---	---	TGTCAGATAGTCGGTCTCTACCTAGGTGCGAGTAGCATGCTAGGAGCTATTAAAGTACACAATTATGCT ATATATTTATACAAATACAAATTACTTGCAGATAGCATGACCATGCTAGTAGTAACCCACAGACTAT GTGTGAATCGTCTATTAGGTTTGCTATAAACTCTACATGGTGCTTTTCCAACTTAA/GJ/CATATACTT CTAATACCATAGAG
WI-754b	49 C T ---	---	GAAGGCACAGGAGAGATGGCTGTCATCTACAGCCAGGGAGAGAGAGC/TJACATTTATTGGTAA TCCTATAAGTGCACTCTTTAAATTTGTATTTACTTTAGA
WI-754	22 T C ---	---	GAAGGCACAGGAGAGATGGCTGTCATCTACAGCCAGGGAGAGAGAGCCACATTTATTGGTAA TCCTATAAGTGCACTCTTTAAATTTGTATTTACTTTAGA
WIR-1b	56 A G ---	---	AGGCAATCAGACCTACAGAGGAAGAAACCCCAATAAAACTCTGATGATCGTACATCC/A/GJTGCGCTG GAGGTGATGCCTCCTGAGGACATGGAGCTTCATGTTTGAGCCCTCCCTG
WIR-1	56 A G ---	---	AGGCAATCAGACCTACAGAGGAAGAAACCCCAATAAAACTCTGATGATCGTACATCC/A/GJTGCGCTG GAGGTGATGCCTCCTGAGGACATGGAGCTTCATGTTTGAGCCCTCCCTG
WIR-3b	72 A G ---	---	TAAATTTAAATGGGGCCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GAAGT/A/GJ/TCTAAAGTTATTAGCTCAGAGCCCTCACACATCTCAGTGACTGATAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-3a	69 A T ---	---	TAAATTTAAATGGGGCCCAATAACACAGTACTTATCTCACAGCATTTCTCTAAAGGCTAAATAAGAA GA/TJGTATCTAAAGTTATTAGCTCAGAGCCCTCACACATCTCAGTGACTGATAACAATAAGCA AAGCTGGGTGCTGAGATAAGA
WIR-4	47 T ---	---	GAGCCTTTCTAAAAATAAGGATTGTGACTAGCAACCTCCTGTACAGATTCCCTGCTCACACATGTGCA AGGCAGCAGCAAAATTTGCCAGCTGCC
WIR-5g	209 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGATCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5f	196 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGATCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG
WIR-5e	194 C ---	---	CGGGACAGAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGATCGGTGGCTCTATGGAAACACAGG TTTTACGTCCAG

WIR-5d	191 A	---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTGGTGGCTCTATGGAAACACAGG TTTACGTCCAG
WIR-5c	177 C	---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG TGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTTAGG TTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTGGTGGCTCTATGGAAACACAGG TTTACGTCCAG
WIR-5b	159 A	---	---	CGGGACAGAGACAGAGAGAGAGTTCTGCAGCATTCACAAGAGGTTATTAGGACTCAGTTCTGCTG CTGTGAGNCATCCACACTGGAGGATGAGAACACCCAGCTGCAGCCAGAGCCTGTGGTCCCACTGTT AGGTTTGAAGGGGAAGGCAAGGGTTAAAAAAGACACAGAGAGTGGTGGCTCTATGGAAACAC AGGTTTACGTCCAG
WIR-5a	37 A	G	---	TAACCCCTGAAACTTTGTCTTCTCATCTCAGGGAGAACACAGACTTCATGTTAAGACCCAGAA[A/C] CGAGCTCTGGGGTGGGCAG
WIR-6	63 A	C	---	TTCTGACTATTTC/AAGCATCTGTAGAATATTGAATACATAGTCTTGAGATTGATC
WIR-7	12 C	T	---	GGCGTCTCTATGACTATCTCTGGTCAATTGATTGACTAATGATTCCTG[C/T]GCCCTTG
WIR-8	46 C	T	---	AAACAGAAAAATAGAGGTTATAAGGATGGAACATAAAGTTGTCAGAAGAGGTATGA[C/G]CTGAAG AAAGAACTACTCTCTTTTGACCAATAAATACAATTGGGAACACTGGAAACCATGGCTTGATTACT GACAAAC
WIR-2	56 C	G	---	TGTCCTTGCTTATGCCTGCCTCTTTCGCTTGGCAGGATGCTGCTCATTAGTATTTACAAGAAAGTA GCTTCAGAGGGTAACTTAACAGAGT[G/A]TCAGATCTATCTTGTCAATCCCAACGTTTTACATAAAA TAAGAGATCCTTTAGTGCACCCAGTGACTGACATTAGCAGCATCTTTAACACAGCCGTGTGTTCAAAT GTACAGTGGTCTCTTTTCAGAGTTGGACTTCTAGACTCACCTGTCTCACTC
WI-7069	93 G	A	---	GGTCATTTCTTTTATCTGTCTCAGGCAGCCAGCTGACTT[A/T]CTCTCTGTTTCTGTCATCTCTCCC CCACATACCAACTCTTACCACATGATGATTATACCAATAATACAGTTCCTTATATGAGGGGCTCTGGA AAATTAGACAGTGAAG
WI-18694	41 A	T	---	CACACTGTTACACACCTATATTTCAAGTTTGAAATGC[A/G]ATTTTGAAGCAGCAATACAAAAAGTA TTCATGAAGAATGCATAATCTCTGAAAATTTATGAAAACATCCCT
WI-18612	37 A	G	TGC	TTGTATTGCTG CTTGCAAT

WI-18517	87	C T	CAGGAATCAG CAGCCTGA	TGTTTGACAA GTGCAACA	TTAAAAATCAACTAGGGCTCACCCCTCAACACCCCTCCATTTGTCAACCTCTACAGCCTGCATGCC ACAGGAATCAGCAGCCTGA[C/T]TTGTCACCTTGCCAAACACAACCTGACTGC
WI-18668	76	C T	GGCGAAAAAC TAGGCAAAA	GCTAAATTAAA CTGCACCTTTT GC	CGATTGACAACCTTTTATTTTCAACTTAGGTAACAGTCCAAAATCAGTGTAGATTGGCGAAAAACT AGGCAAAA[C/T]AGCAAAAAGTGCAGTTTAAATTTAGCAAAAGGCTCAAGACAGTATGTGGAAGGAA GGTGAGATTCCCTCTACT
WI-18680	75	T C A	GCTGTCACTCT AGCATCTGGA	CCTCCTGAATA TACAACGGAGC	TAAACATACGAGTACTGTACACGCAAGCATGCATCCCCTGAGTCTGAGTGAGGCTGTCACTCTAGC ATCTGGAA[T/C]GCTCCGTTGTATATTCAAGAGGGGA
WI-18704	99	A C	GGTTCCTCGA GGGTAC	TGAAGGCCCTG CTGG	CACCCAGGCTGTACCCAGGCTTCTTTGGGAGACCAACCAAGGCGAGTTGGGCTTGAAGGAGCC CTTGAGGAAACACGGGTTCTCCGAGGGGTAC[A/C]CCAGCAGGGCCTTCAGCTTAAAGTCG
WI-18673	29	A G ...		---	TGTGGGCAACCTTGTATTTAATTGCAAA[C/A]GJACTTAATTTACAGCACATTTCAATAATGAACCAAC AGGAGATTGCTGACTTTGTAAACATATGAATATATAAAAATCCCTTGCAATTCAGGTAGTCAAGGTA AAAAGCGCATACAAGGAAG
WI-18640	121	T C	GTCGTGGGTG GGG	GCAATACCAC TGAAGAGGAC A	ACCAGTCATGTTTTATTGGAGGTTAATTCCTATTAGGATATGAAAGGATTCAGCAACGATTGAGATT GTGTTCTCACGGAGGGCTCGGGCCAAAGGTGCTGGGTGGGGGTGCAGAG[T/C]GTGTCCTCTTC AGTGGTATTGGGACC
WI-18533b	91	T C ...		---	GGGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCTCTTTATTT TATATTTTCATTTTTCATCCTAA[T/C]TTACTGAAGCCATTTCTTTGGTTAACTTTAGA
WI-18533a	59	T G ...		---	GGGGAGAGGAGGTAGATTGCCAAATTGAGGCATTTTTTAACTCCCGAGATTTCTTTGJCTTTA TTTTATATTTTCATTTTTCATCCTAAATTTACTGAAGCCATTTCTTTGGTTAACTTTAGA
D11734	83	A C T T C	TCATCTGATAC CTTGTTCAGAT	AACCAGGATA AGGCTACAAC ATTT	GAGCATATGCTGCATGAGGACCTTTCTATCTTACATTATGGCTGGGAATCTTACTCTTTTCATCTGATA CCTTGTTTCAGATTT[C/A]AAATAGTTGTAGCCTTATCCTGGTTTACAGATGTGAAACTTT
D49493	159	A T T C T G G G A A T T		ACTTTCAGGCC AGGC	CAGGACTTGTGGTGCAGCTGCAGACACAGACAGCAGCTCATGGGCAACATCACTGGGGCCCGAGAG AGCTGTCCGCCAGTGCATCATTAGGGGTCTTTCATTGCTAGTACTAGCCCCCTTAAATGCCAGCCTG AGTACCTGAAGGAATCTGGGAAT[T/A]TGCCCTGGCCTGAAAGTGGCCCCATCATACCCCACTGTT CT
EST10030 7	98	T C T C T C A A G T C C C	CATTTTGTTC TCTCAAGTCCC	GCAGTGGTGGT ATGGATGA	TATTTTCATAGAGGAGACCTAGGAGGAGTTGACACAGACACTGCTCAGCAGATGACTTAAAAATTT CCCTTAGCCATTTTGTCTCTCAAGTCCCCT[T/C]TTCATCCATACCACCACCTGCTGATTTC
EST10052 2	24	G A G A G G C T G	GCTCACTCTG	TGTGGAACCTC AATCTTAGACT TC	TATTTGGCTCACTTCTGGAGGCTG[A]GAAGTCTAAGATTGAGGTTCCACATCTTGTGAGGGCCTTC CTGTTGAGTCATAACCTGGTGGGAAGTCATCATGTGGCAAGAGAGAGGGCTACAGAGAGCAAGAGGAA A

EST10605 2	118 C G ---				CTTGGCTAAATCACAGTTCTGTATTATACAAAAAATTTGTTTCTCTGACAAAATGTACACATAGA AACAAATTTCCAAATGGACAGGAACCTTAAATTTGTGGAGATGCCCATGTC/GJTGTGAGACTTAA AAAAAGAAAAAGATCCC
EST11048 0	61 T G	CTCTCAAGTAG ATAAGAGGCA TAATCT		CTCTCAAGTAG ATAAGAGGCA TAATCT	CATGTGTCATCCCATGATTGAAAAGACATGTTGCTCTCAAGTAGATAAGAGGCATAATCTT/GJAA ACAAATTTCTTTCTGAAAATTTAGCTTATGAACCTATTACACTGCAAAACCAGAGAGGAGCAC
EST11260 8	101 G T ---				TATGGAGGCCAGAGGAAGTGACACTATATGTGGAAGTGTGAAGAAATGAAGTGTCAACACAAAA TTCTATATCCAGCTAAATATCATTTAAGAAATGAAG[G/T]GGAAATGAAGGCAATATCAGATAAA
EST11349 9	109 C T ---				TTTGATGGAGAAATCCGAGGCTGCCAGCATCCCACCATAGATTCTTTGGACGAAGAAAAATCCT TCTGTGGATTTCAGCTTACCGCTTTCCCTCATCTGCTGGTGT[C/T]TCCCTCAGAGCTTTAATGTCCGT CCTGCTCTCCGAGTCAG
WI- 16632a	71 A G	CCAACCTACTT TGGAGCCCT		TCCAGCTTTCT CTAAAAACTCC T	GAATTCGGGTATTAAATAGCGGGTGCCACAGGAGCACATAGGAAGAGCATCCAACTACTTTGGAG CCCT[A/G]AGGAGTTTGTAGAGAAAGCTGGAGCCCGAAGACCAGTAGTAGGAGGTAGCCAGACCAA AAGGGAGGAAGGAGTGGGA
EST11772 6	74 A G ---				CCAGGAATAAAAGAAAAAGTGCAGAGGAAACAGTCTTTGATGTTATAGGGCTGAGACACTACTC TTCCCTCA[A/G]GACTATTTCTGACTATAGTGAATAAATACATTGAAGACTTCAGGAGCTCA
EST11795 3	82 G A ---				CTTGCCATTTATTTGTGCATGTTGTTCTTAAAGGCTGTGAAGATAACTTGAATGTGGGAAAC ACATAGATCCCAGA[G/A]TATTAAAGGGCTGGAAAAGTAGCCTTAAGAC
WI-16644	42 G A TAC	CAATAAGCAG CTCATTTTGAT TAC		ACTTCATGAAT TTTACTTCATG TATACC	AGAGCAATGGTGGATCTCAATAAGCAGCTCATTTTGATTAC[G/A]GGTATACATGAAGTAAATTC ATGAAGTAAATTCATTATACCAAAAAGCCCTCCACAGAACTTTTCATGCACCCTGAGCTATGTGAAC TGAAAAGTAACAGTGGGAT
EST12005 9	56 A G	TTGTATAATA ACACTCAGTA CAAAGTCTGT		GGCTGGTCACT TCCTGGAT	GCCTAGTAATCCAAAAGGAACATGTTTGTATAATAACACTCAGTACAAAAGTCTGT[A/G]ATCCAGG AAGTGACCAGCCCGACGTGTGCTATGACCCCTCTGAACCTCCCATTTCCATAGTTTGAATC
EST12055 9	32 T C ---				GTGGAAAAATTTTATCTGTTACGCTTTTCC[T/C]ATTATATTATCTTGTCCCTGATTTCAGCACCC CACCCGATTTGCAGGCAGTGTCTTCTAAACTGTGCCCTGTGAGCTGTAAAAAGTCTTCT
EST12492 1b	95 A G ---				CCCCTAGCAATGACTTGGAGTTGTGCCAATACCAAGTTACATACTGTGCCAAAAATTAAGCTCTC TTCCCCAGAGGCATTAACTGAGATTAT[A/G]GGAAACGCACAGCAAAATTTGACGATGCAGCTTTTAA CCTTTTTA
EST12492 4	25 A G ---				ATCTTGAGGTTTCTGGGCTGTGAG[A/G]AAGTGACATCTTTTACTTACCACAGGTGAGAACCTAT AAAGAAACTGTGTAGAAAAGATATCAGGTGAGACTTTTAAAGGGCTTCTTATCAGCTCAATAAA

EST12502 2	52 C G ---			ATACTAGGGAGAAACCAAACTGGAGGCAAGTCCACAGGTACACTTGTCAC[C/G]CAGCAAGTAT AACAAAGTGGTTTCGATGAAGAGAAATGCTCAGGGGAAATGACCATTTTAAAGGCCATGTG GTCGTCGAGGCAGTTAGAGG
EST12619 8	105 T C ---			CCAGAGAAAAATTAGAATGTATCGGTAAAGAAATAGGAATGCATATTTCAACTCACTGTACAAA CAGGTGTTTTATTATCCAAATGACAGTGTGCCTGAGAT[C/G]ATGCATGTGGCAGACGAG
EST12620 0	67 A G ---			TTTTCTCTCTCTTCATTATTCATTTGTTCAAAACACTGTCTAGTACCAACATTTGCCACCGGCA /GTTGAGAATACAAATATTGAAGAAGAGTCACTGCCTGCCCTCTGGAAAAATCAGAGTATTGA
EST12817 9a	22 C A ---			TTGGGTTCTCCAGGATTCAG[C/A]CTCGTAGCTGATGTGCATGAGTTCTCATCCATGCTCCACGG GTTCTTGGGAGTGACCGGGATGGGAATCCATGTTGCTTTGCGTACTCCATCAGGTCATTGG
EST12941 8	23 T A ---			TCTCAGCTTCCACCTGACCTGCAT/[A/C]AAGAGCCAGTTATTTCCACCAGAAATTTGTTGGGTTTCA ATGTAGTGTAGCTTTAATACACTGCACCTGTTTTG
EST12949 2a	52 A G ATACTGTT	GGCTTTAATCA TAACCTAATA	TGTGTCCCTGT GGGTCTC	AGGATTTTCATGAGGCTTTAATCATAACCTAATAATACCTGTTAAAAACAACAC[C/G]TCTGTCACTTG CAGAGACCCACAGGGACACACATTTCTCTCTCACATAGACTCTGAGGTAGGAGGTACACTGGCT AAGGAATAA
EST13067 4	104 C T ---			ATTTTGTGTTTTCTTAATGAAGCATAATAAACAGTTAAAAATCTCAGAAAAATCATCTATAGTTGA GTGTAAACTCCCTAAATCAGTCTTCTAGGGCCACA[C/T]GGAGCAGAGCAGCTTCCACCCCAAG CACCTCTGAAC
EST13117 6	66 A G ---			TGCTGTCTGCATCAGTCTCTTTAAAAATTTAATCGCTTTATACAAATGACACCAATAAAATGCAC[C/A] /GJTATTTAAAGTTTACAATTTGAGAAGCTGACACGTGTCCATACAGACACACCTCATTTTACTGTGC TTTACTG
EST13121 6	44 C T ---			TCTGCTTTAAAGATTCTTCATAGCTGCTTAGGTTTGTCTTCC[C/T]AGCATATTCAGCTATAATCA CCTACATTCCTCCACAAATATTTCTGTGTGTGCGCAGGCCAGTCTCCTCACTGTCCCATGAATAGCC AGTCTTATTTCCACTCT
EST13226 6	74 T G ---			AACTGTTTACTAACAAAGGTGCTTTAATTTGAAAAGCATTTGAGGAAATAAATTAATGAAATAGTCT GGCCATT[C/G]GACTAACCAAGTTCTACAAATTTACATATCCGTCACCTCAGATGAGCATATACCAAG TCAGAGGAAACAAAACATG
EST13230 6	72 G A AGAGACGC	GCTCAGATGTG	CCGGCTCCTGT ACAGAGA	GCATCATCAGCGGCTTTTACTGAACCTTACAACCAACTTGCCTGCTCAATATGCAGCTCAGATGTGAGAG ACGC[G/A]TCTGTGTACAGGAGCGGCTACTGTCTTCAATCCTTTGCATGCAGGTGTTTACACAGGCA AACAGTTTACTCCACAT
EST13236 9a	70 T C TCTCAGGCT	AACCAAGATTT TCTCAGGCT	ACAAGAGGGTT TGACAAAAAGA	AAAGATATAAAAAACAACCTCCCATCAGTAGCAATACAAGGTTATACATTTTAAACCAGATTTTCTCAGG CCTT[C/G]TTTTGGATACCTTTAGTAGTTAACTCTCTTTTGTCAAACCCCTCTGTATATAACCA

EST13278 2a	51 A G	CATTACCGAA CAATATTTAG G	CATATCTTGG GTGGTGAGAA	TTGCGAGAACGTTTTACAAGCTCCAAACCTTTACCCGAACAATATTTTAGG[A/G]ATTTGAAATTAT TTCTGTAGTTCTCACCACCCCAAGATATGACAGCTTG
EST13282 0	99 A T	CCACACATTT AGTCCAAGA	GATGGAAAAAT TGAGGAAGGT	GCTCACTAGATGAGCATTGACCAAAATATTAGATAATACCTGTGGGAAAGTGCTGAATTACTAGCC TGCCTGAGAATCCACACATTTTCAGTCCAAGA[A/T]AACCTTCTCAAAATTTCCATCTCCCATCAGA GG
EST13290 9	39 A G	CAATTTTAGA AGTTGGGTT G	AAATCACTTCA TGGAAATTTCA	AGCTCATCTGCAAGCAATTTTGAAGTTTGGGTTTCTT[A/G]CTGAAAATTTCCATGAAGTGATTTTT TTTTCTGTGCTTAACCTCAGTTACTTAAAGACCTAAAGACAAAGTGGTATCACATCACATATTTTGT ATGTGTGGGCTTTTTG
EST13518 2	45 C G		---	GAAACATCCTCCAGTAGTATTGAGGTTAAATGATTGAGCATTTA[C/G]ACTTTAAAAATTACCTCA ATGTTCTCGGAGTCGTCCATAGTTTAAATGACTTCTGCACCTTCCCTTATAACCTTGATTG
EST13522 8a	66 A G		---	CAGGTTGGTGATTCTCAACTAGGAGCTATTTGCCCCCATCCCGGAGTGCTGGAATCACTGGGTAGAGGCCA GIGTTTTGATTGTCACAACCTCGGAGAGGTGGGTGCTACTGGAATCACTGGGTAGAGGCCA
EST13568 6	69 T C		---	CTTTAAGGAAGTGAGCCAGATGAATCCAATGACCAACCTGGTTGAGAGCCATTGGTCTAGGAGTAGA AA[T/C]GCACACAAGGAATAAGGGAGAAGGAGGTTCCGTTAGTTGAGGGAGAGAAAGTTGGAAGCA TTTCAAGCTAAGTAAATGGT
EST13785 0	101 C G		---	AAGATTACGGACCATAAGAACTGCCCCCGGACCATACACACACAATTTATAGCAGGTAACCAACAA CTGAAAGGAACAAAGTAATGACTTTCTTGAACAA[A/C/G]TGATTACGAAAGTGAAAGGCTACAGGG TGATTACTA
EST14038 1	25 A G		---	CCTCAACCATCTGTAAACCGAGCCCC[A/G]CAGTGACCGGGACTTGCTGCTTCCCCATCCCAGCCCTCT CCTATCAGCATCCGCTAAGCGTCAGTCAGCAGGTG
EST14083 7	23 A G		---	CAATGGTGTCATGTGAACATAT[A/G]ACCTATTATCAAAAGTTAAAAAATAATCCCTTCTTGCAATCA CAGTGCAAAAGGCATGAGGGTGAAGTCATCTGCTAAAAATGACCGAACAGGAGGTAGGAGG
EST14221 5	42 T C	GAATGCTAGA CAGAGGCATT	GGAACAAGTC AAAATATTTT AAAAGA	AAATCAATGCATTTCTTGGCATGCTAGACAGAGGCATT[A/T/C]TTTTGAAGATCTTTTAAAAAT ATTTTGACTTGTTCCTCCCTTCACACTCATTTTAAATTTG
EST14812 2	50 A G	CAAGTCAGCTT CTACATTTCTGA ATA	TAAAGATTAC TTAAATCCCAT TATGTACT	TTCACTTAGTACCAAGGATGCCCTTCAAGTCAGCTTCTACATTTCTGAATA[A/G]AGTACATAATGGG ATTTAAGTAATCTTTAGAAGTCCCGGAGTTTGCCTTTTCTAACATTTTCATATCAGGTGAAAAACAAT TTTTTCATATGGGTGATT
EST14815 3	128 A T	CATCACCCACC ATACITGGTT	CGGGAAAACA GTACCGGAA	TTTGCTTCGGCAATACATAGTGGCAATGCAGCGTGAGTTCGCGCGCTCTCCCCACTGAACCAAGTAAT TCACCAGACAATGGCGCACCACTTAAATAAACTTGAATAAACTTGCCTGTCATCACCCACCATACTGGTT[A/T]TTC GGTACTGTTTTCCCGTA

EST15420 6	109 C A ---	---	---	TTTAAACCCCAAGACITTAGATGTCAGGACTCCGATCATTTTCTCTGCCTATAGCTTGGATATCTTA ATCTCTCCCTTTTGTCATCATATAATAGCCAAAGGGAAGT[C/A]GGAAATTTTGGCTGCTTCAAGTCA TTCCAAAACCTCTCAGG
EST15700 6	48 G C GGA	GGTTTGCCAT GAAAAGACAA AGACAACAGA	GAATAGCTGA AACAGAGATA TTATTCTC	GTCACGACACTTTTATTAAAGACGTGAAAAGACAAAGACACAGAGGA[G/C]AGCAGAGAAATAATA TCCTGTCTTTCAGCTATTCAGGATGTTATGCCAATTTATCCAGAGTCCTTGATCTGATGTAGTA
WI-16739	57 G A CACAAGC	GGTTTGCCAT GAAAAGACAA	GATAGTTGATG TTCAATTATCC CTATAA	AAGGATTGAAAAACATACCTAGATCATATAAATTTGTGAAGGTTTTGCCATCACAAAGC[G/A]TTATAG GGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAAAATGCTCCCAAGGT
WI-16782	96 C T CACTGTAAGG	GGTGGGAGTCT GAAAAGACAA	CTTCTATCTTT CTGTTCCTCCA TC	CTTCTCTTCTAGACGTGGAATACACACGGATACAGTATCTGGAGATGTAGCAGCTGGCTCTTGAC CATAATGGTGGGAGTCTACTGTAAGGA[C/T]GATGGAGGAACAGAAAGATAGAAGAAGTTTGGGGT GCTGATGAATTTGTGGGG
WI-16783	64 A G G	TCCTGAGATGT CTTTACCTGA	CTGCTTGGTTC AATCCTTATTA G	AAAAATGTAAACCTTAGAGGTTGCCTCTTTTGTGTCACTTTTCTCTGAGATGTCTTTTACCTGAG[A/G] CTAATAAGGATTGAACCAAGCAGATATTTTAAATGGCAAAAGTCCAGATGTAACCTCGAGT
EST15948 2	58 T C ---	---	---	CAGGACTTAAGGTCAATTTTGCCTGGAAGACTTTAACTAAAGGTCAGGCAACATAGGA[T/C]GTGA CAGCACCACTCGGACCAAGAGTGTGAAAATCGTCACACTAGCGTGCCAGCCCCCTTTTTCCTGGC TGCTCTGCCTCCAGAGC
EST16088 8	89 G C ---	---	---	GGTTTGAAGACGCAGCTTTATCTCCACCTGCCACTGGGATTCATTTTGAGAGCTGTTTGTGACGCC TTTTCAGAAAAGGCCGCT[C/G]GGGTTTCTGAACCTCTATGGGCAATTTTAGAAT
EST16089 9	96 C T ---	---	---	CGTCTGAAGTTTTCTTTTATCACAAGTCACATCAATCCCTCGGGCCCCCTGCTCAATGCCACCTCTTC CTGAAAGCCATCCCTAAGTAGTCTCTC[C/T]AAAGAGCCATCCCTGCCCCCTTTCTTTTGT
EST16100 1	24 C G ---	---	---	ATCCAGCTGTGAAGGACAGGAG[C/G]GTAAACACACAGTCCATTTATAAGGGGTGTGCACATTCOCA GGGGCTCCAAATAATGCAACATTTTTCACCTCGTCCATGCTGCTGATAGTTTCATAGTAAAAAAGTC ACTCCAGACAGGTGGCTC
EST16104 9a	83 A G ---	---	---	TTCTTTTAAATAACCCACAGACACCCATGACACTTCCAAATTTACAGAGCAAAAAGTATTGCGAG CTGGTTCTCCAGGGA[A/G]TTGGCCCCGAAGCTGGCTCAGTTCACTCCAGGACCTCAGTC
EST16118 0b	119 T C ---	---	---	ATGGTATAACAAAATCAGTCCAGGTTTTTCTGAACAATGATCCTTTTCCCGTGGCATG CTCCTAAAAACAACTAAACAACCCCTCTACGCTAATCAGTCACCTAAGATA[T/C]CGAGTGGCAAGT CTTTCACA
EST16118 0a	32 C G ---	---	---	ATGGTATAACAAAATCAGTCCAGGTTTTTCTGAACAATGATCCTTTTCCCGTGGC ATGCTCCTAAAAACAACCTAAACAACCCCTCTACGCTAATCAGTCACCTAAGATAATCGAGTGGCAAGT CTTTCACA

EST16151 2	53 C T ---	---	AGCCAAATCAAACGAACTCTATCAAAACACACAAAGGCCTAGAGGAGAGATTA[C/T]AATGAACGT AAATAATTCAAGGCAATTTTGATCTAAAGCATTTTGCTTAGCTCTACAAAGGCATGAATGAGGTGT GGTCACGTTTTTGATAGGA
EST16182 6	54 G A ---	---	CATTGGTTGGGTAGGGAAGATAGTAGTGTGCAATAAAATGGTAAACAGCAG[G/A]AAATGGAA TTATAGCTTTCTTTTCATATAGGGAATTGAAATTTATTTACTGAGGGTGATAGGCAGAGTAGTA
EST16183 2b	59 A G ---	---	GCAGGTAACGTGTGGTTCACAACGTATTGTTCTTTTCATAAAGAAAGAAATATCTAGTTG[A/G]GTAG AGGAAGGCACGTCTTCCTGGCCCTCTTCGTTTCATATTTTATGTCACGTCTCCTAACGTGGGCCGTGT GCAAGAGATCTTTGAGA
EST16198 4a	28 G A ---	---	AATCTTAGGCTCTTGGCTTTCAAATCA[G/A]TACAGACAGATAAGAGCTTTAAGTATTTTCGCATTT CCCCAGAGGAAAGTCAGCATCAATAAACACACATGGGTACATGCTCAGGCACATGGTGTC
EST16229 2c	52 T C ---	---	TGTGAACCTCGAATTCGCTTGTCCAAGTCCTGAGTCACAGTTTCA[T/C]TGGGAGT[C/C]CCCTGTGCAGCC CTTGCCAGTTTCCACGAGGCAGGATACCTCAGCTAGCTGATTTCAGACAGGCAGAGGCTGCA
EST16229 2b	45 T C ---	---	TGTGAACCTCGAATTCGCTTGTCCAAGTCCTGAGTCACAGTTTCA[T/C]TGGGAGT[C/C]CCCTGTGCAGCC CTTGCCAGTTTCCACGAGGCAGGATACCTCAGCTAGCTGATTTCAGACAGGCAGAGGCTGCA
WI-16816	124 A G TGGGTTA	GGACCAATTGT GTTCAGGACAG	CAGACTTTTCTCTACACCTCATTTGGCTGGAACTGGGTCACTGCACATCCCTTGAACATCATCTGGCAA AGGGAAATGGGTATCAAAATTTGCTTAAGGCCAAGCAGGAGCCATTGTTGGGGTTA[A/G]ACTGTCC TGAACAAAATCTAGGCTC
EST16269 5b	49 G A ---	---	GCCACTCTCCTGTGGCTTCTCTCTGTCAGCTGCTGCCAGTGTCCAGTGCCACAG[A/T]GGTCTAGCCTCATGG CAGAAGCATTTTAGCCAACTCCTGGTCTGCTGCCACTCTCTTCTTCCGCCGCTGGGGCTCACCACC TCTTCTCCTCAATC
WI-16824b	83 G A ---	---	GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCAGCTGTTTCTTATGAAGAAGTCAG AAGCTGATAAACGTGG[G/A]CTTACACCTTTAGCACGGATAGTTTCTGTTCCCAAGTGGGTGTGGA GCCTTCCATTATGGGAATA
WI-16824a	47 T C CAGCTGT	CAGCTTCTGAC TTCTTCATAAG AA	GTCACCCAGCCCAATGCTTCAGGAATAAATGATGGTGTGCAGCTGTTT[C/G]TCTTATGAAGAAGTC AGAAAGCTGATAAACGTGGGCTTACACCTTTAGCACGGATAGTTTCTGTTCCCAAGTGGGTGTGGAGC CTTCCATTATGGGAATA
EST16445 3	96 T C ---	---	TTGCTTTTATTAAATCCAGAACGGCATGTACAGATACTGTACAGCATGAACATTTTATTACAAA AATGGCTTCCAAACCATTAATAATGAAC[T/C]GGAATAAGAGCATAAAACGGAAACAGTAACATCA
WI-16857	47 G A A	TGTGAATTGGG AAGACCACT	TATAATCCATCCTCCAACACACACACAAATAAGCAGCTAATGGCAAT[G/A]CTAGTGGTCTTCCCAA TTCACAAGACCTGTGCTTCAAAATGTTTTCCTGATAATGTGGAGAAATCTGCTCTTTATGTA

-201-

WI-16879	79	C T	GATACAGGC ATAATTTCCCA	CAAGGCTTTCT AGAACTAGAGT CC	AGACAGGTCAAAACAACTCCTAGGGATAAAGATATAAATCCAGCACAGCATTATTTCCAGATACAG GCCATATTTCCCAIC/TATAGGACTCTAGTTCTAGAAAGCCTTGGGAGAACAGGCACCCAG
WI-16882	99	A G	GAAATGCCA CGTCTCTGAC	GACACATGTCA GGTAAATCGC	ACATGAATGGCAACCTCTTAGTGGGAGAGACAATTTCCCCCTTTACCCAAAGGTTACTCTGAC AAGGCTATGAATGAAATGCCACGCTCTCTGACIAG/GCGGATTTACCTGACATGTGTCATCTCCCT
WI-16888	70	G A	GCTAACTTTGG GCAGGTC	AATGTTCTGAA TTGACCAAAT TAA	GTAGTAAATGTTTCATCACTACCCGGGGAGAGCAAGAAACCATGGAACGGTAGCTAACTTTGGGCAGG TTCTG/AJTAAATTTGGTCAATTCAGAACATTCCAAAT
WI-16905	75	C T	ACTGGCCTGT GTGTTCA	GTCTATACTCT TCTAGGCAGTG GG	TTTGTGTTTGTATTGCTCCCAACATCAGAACATAAGTTCCATGAAAAACAGGAACTTGGCCTGTG TTGTTCA/C/TCCCACTGCCTAGAAAGATATAGACA
WI-16910	74	G A AA	AAGAGTAAAG ATGGCGCTAG	CAAAATGAAG TATCGTTTCTA TAACAGA	AGTTTCAGTATGTGCTTAAGGAGTTATATTCGCTATGACTTTTCATCTCAGAAAGATAAAGATGGCG CTAGAA[G/A]GTATCTGTATAGAAACGATACCTTCATTTGGCCTGAACAGTGAAGGT
WI-16918	93	C T	CAGCCATTAA CACCAGCAC	TCCTGATACAG AAGTGGCATC	GGAAAGAAAAATAAACTACCACCATCTCTCTGCTACACAGAGCACTAAAACTAGGAATTTGAC TTTACTGCAGCCATTAAACACCAGCAC/C/TGATGCCACTTCTGTATCAGGAACCTAACGTGACAACC ATGAAAGTCTCTGAAAG
WI-16947b	127	A C	GGAAAGCAGA CCTGGGG	ATGTGATTGCC CGTGG	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAG/C/GJACAGG TGCGTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAAGCAGACCTGGGGI/C/JCCA CGGGCAATCAGATGAGATG
WI-16947a	58	C G	CATGGAATA GGCCTGGAG	GCCTCAGCCAA ATCCTGT	TGAGTCAAAACGATCTTGACGGGAAGCTGTTAGAGGTCTCATGGAAATAGGCCTGGAG/C/GJACAGG ATTTGGCTGAGGCTTTCAACTGACATCAGACAAGACTGCAATCAAGGGAAAGCAGACCTGGGGACCA CGGGCAATCAGATGAGATG
WI-16966	43	T C	AAATGCACAC TACATAACAA CCTAA	TGCAAGTTATC AGTATAAAAA CTCATATT	CATTTGTTTACTTTAAAATGCACACTACATAACAACTAATA/T/CJCTTAACTTGGTCCAATAATTT AGTATAACTAATAATGAGTTTTTATACTGATAACTTGCAATGCCATTAAA
WI-16995	55	T C	GAGCAGTAGA GACTGAGGTA	CATGTTGATTT CCAGCGGT	TTAGTGCCAGACATCAAGCATAGAAGAGCAGTAGAGACTGAGGTAAATAGTATTT/CJACGGCTGG AAATCAACATGCCTCTCTCTGTGTGAAGTTGTCAGCATGGAGCTGAGAAGGCTGAGTCAATCT
WI-16992b	60	T G ---	---	---	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTG/CJCCCTCATCTGAGATGTG TAGGACTGTAAAGGGAATGTGTTGGGGTTTAGGAA
WI-16992a	46	G A TC	AAGCACCAG AAGTACACTG	CACATTCCTT ACAGTCCCTACA C	AAATACATGGTGTCAACCTCAGCTAAGCACCAGAAAGTACACTGTG/CJCCCTCATCTGAGATGTG TAGGACTGTAAAGGGAATGTGTTGGGGTTTAGGAA

WI-17010	23 T C			TTCAACAGGA CAAGCCATG	AATAATACGGT GTTTGAATGT CA	ATGTTTCAACAGGAAAAGCCATGTCATGACATTCAAAACACCGTATTATTAGAAGCTCATTTAAT TGTTTAATGCAGACAAAAAATCAAGGCTAACTAAAAGCAGATCCAATGACCCAGTGATCAACCTAGA GGTTCACAG
EST17127 9b	74 C T			CACCTGGGCAC AGACAGAGT	GGGAGGCAGG GGTG	ATTCCGTCCTCAAACAGCATCCAGGCGGGCATCTCCCCACGATTTTATAATACACTCGGCACAGA CAGAGTCCTGGGAGCCATGGGCGCACCCCTGCCCTCCCGAGGCTTCCTAAGTAACAACCT
WI-17040	94 T C A			AATTCTCTTAT CATCTCAAGCC	GGACTATGGCT TATTCAGTGAT G	CACGCGTTCATTAATTTGGTACAAAGCATGAACACTCAGGACAGATTGGCACATACATGCAGTTC GAGAACTCTCTTATCATCTCAAGCCAGTCATCACTGAATAAGCCATAGTCCCGAGTCTCGTTTTCC AAATCTTCTCATATTGT
WI-17044	47 G T G			GCCAAGGGAT TAACGTATAG	GGGATGCCCT TGTTAAGA	TTGTTTTGTTTTTCTCCTCTGCCAAGGGATTAACTGATAGGTCCTTTAAACAAGGGGATC CCCCACTTATAGCTGACAGCAGCAGCTGCAACCCACTGACTCTCTGCAAGTATGCAGGAAATCGAAT CAAAAAGAAAAGCAAAGTG
WI-17021	62 T A ACTC			TGGACTTGTC GCCTATAACT	TGAGAGTTAG TGGCAGCTGC	GCATGTTGGAGCAGCATCTCCATGGTAAGCCAAAAGTGGACTTGTACGCCCTATAACTACTCTTAAJG CAGCTGCCACTAACTCTACAGGCACAGTAACACTTATACAGGAGCACATGCCAAAAGTGCCTGG GAGTGCCCAATAAAATCAA
WI-17065	90 T C CT			CCAGAAAAGGA AAAGCATAAA	CCCAAGAGAG AATGAAATCCT	TGTAaaaaaATGTAGACATGGGGGAAAAAACATTGTAATCAACATGTGCTGTTTTCTACTTCCGGTA CCAGAAAAGGAAAAGCATAAACTTTCAGGATTTCATGCTCTTGGGT
WI-17066	32 A C T			TGTACAGCCA ACATCACTGTT	GAGATGTTGAA AATGTTCTGGA A	TTCATAAAGGTTGTACAGCCAAACATCACTGTTTAAJATCCAGAACATTTTCAACATCTCAAAAAAGA AACTCTGCACCCATTAGCAGTCATCCCTGIAGCTTCCCTCATAGGCAATGGCAACTGCTGATC
WI-17074	86 T G ---			---	---	TGCTGACTGTCATGACTTAGTAAGGCCATCACAGGTTGCCAGAACATCTACTCAACTGTTCCAGCAT AACTCCTACACAGGCCCTTGGCTACATAGGAGTATATTTGGCCAGACTACCACCTAGAAAGTGATT
WI-17104b	108 T C ---			---	---	CAGATGAGAACTCATGCTGGCTCATCTGCAAGCTTCCCTGATGCTTTGCGAGCTTTCCTCATTCCTCA AATCAGAAAGCAGTCAGTGGCCCGGTTCAGAGCGGCTTCTCTCTTTGTTAAGAAATTA
WI-17114a	37 T C			TTCCATCAAG GACTTTGTTT	TTGTATTATAA ATAGCAGAGTG AAGAGAC	AGGTCACAACAGATGTTCCATCAAGGACTTTGTTTTTCTCTCTCTCACTCTGCTATTATAATAC AAGCTAOCCTCCCAAGGCCAGATGCTCTAAGTGCTAAAAGAAGACTGCAGCCACAATCAGAGTTACAT GGGA
WI-17150	76 T G CTCT			GATGAAATTC AGATAGTCTTC	TTCTCAGAATC CTGGAAGATAT G	CGTGGCTGGACTAAGTGCTCTTTCCATGTGGACACATCTCCACTGAACAGGATGAAATTCAGATAGTC TTCCTCTTTTGGICATATCTCCAGGATCTGAGAAAGGCCCTCCTTTGCTGCTCTAATTT
WI-17163	43 A G TAACGTT			CATTCTTTGT AAAATAACAA	CATTCTTTGT CAGAATCTTGC TTTTGCCT	GAAATCGAATACGTCCATTCTTTGTAAAAATAACAATAACGTTTAAAGGCAAAAGCAAGATTCTG TAAACCAACATTGAAAAAGGGGACACAGGGAGGGGAGGAAAGGCCAGATTTTCAACGGTTT CCTCCACATCTGCAGACAAA

WI-17178	127 T C	GGACTCCCTCA	CCCTCAATTTT	AGCAATGTCCCTCCAAATTTTCATTAGCTATGATGGAGTTATCAGTTTCATTTTCAGAGCGAAATTACTGG GGCGAGGGGGTTTAAATATCTGATGGGTTTAAATTCAGTGAGGACTCCCTCATGAGGAGCTTC/JAGAA GCAGTTGAAATTTAGGGG
WI-17180b	81 C G	...	...	TCATGGACATCTCTGAAGCAGACACAAAAATATAGAGAATCCTGCACITTCCTCCAAAGTCTCGTCGCACAG GCTTCAACAAATTAC/JG/AACATCTTGCCCATTTTGTTTCATTATCCGCACCCACACTGACAGATGAG GGAGTC
WI-17180a	47 T C	CACAAAAATA TAGAGAATCC TGCA	TGCGACGAGAC TTGGG	TCATGGACATCTGAAGCAGACACAAAAATATAGAGAATCCTGCACITTCCTCCAAAGTCTCGTCGCAC CAGGCTTCAACAATTACCAACATCTTGCCCATTTTGTTTCATTATCCGCACCCACACTGACAGATGAG GGAGTC
WI-17156	54 G C	TGTTCTCTAAA CTTTAGATATC TCCCA	CAAGAAATAT ATATTTGATTC TGTGGAA	TGAGGTAGCAGGGCATCTTAAAGAAATGTTCTCTAAATTTAGATATCTCCCATG/JTTCCACAGA ATCAAAATATATTTCTTGTTGGAAATTTTAAATGTTCTTAACTATCTGCCTACCATCCACCTCAAT TAATATCTTG
WI-17149b	79 T C	...	...	CAGGCAGTTAATGTGCTGACATAGTAACAAGGTTGAAGGAGGAACATCTCATGCACGTGCGTGGAA ACCCAATTGTCA/T/CJGTGTATGAACATAAAAGGATGGGAAAAAGAACACATTTCTCACA
WI-17149a	48 C G	CAAGGTTTGA AGGAGGAACA	CCACGCACGTG CATGA	CAGGCAGTTAATGTGCTGACATAGTAACAAGGTTGAAGGAGGAACATG/JTTCATGCACGTGCGTG GAAACCCAAATTTGTATGTATGAACATAACAAAGGATGGGAAAAAGAACACATTTCTCACA
WI-17197	67 G A	GCAGAAGTAG CTGGGGCTAC	GGTGAGGTGGT GCATACC	ATTTGCTATGTTGCCCTGGGCTGGACTCCAGCAATCTCTGCCTCAGCAGAAGTAGTGGGGCTAC/JG /AJGGTATGCACACCTCACCTGCTTATCAGTTTCGTTTAAATAGAATATTTGACTTTTAGATGCGCA TGATTTTCAGTACTTTTCTCCCTTGTCCCTAGTTT/JC/JAATTTCTCAGTGGACAAATGGACAA ACCATCTCTGTTTGAATTTGAATACACAGATACATGCAAGATATCTTACAAGAAACAATGCACATCC TTC
WI-17198	38 A C	CCTAGTTT	ACTGAGAAATT	TCGCTATGCTACCCAGGCTGGTCTCATC/JTTCAGGCTCATGGATCTCTCTGCCTCTGCAGTGGCTGG GATAAGACACAACCTGCCACCAGGCTGCCCTAGGAGTAGTCTTAATGCCCTGATGGTGGG
EST18753 8	27 C T	CTACCCAGGCT GGTCTCAT	GGATCGCATGA GCCTGA	TTATTTTAAACATAACCAAGATGCACCTTGGTTTTTACATTCTCTGGTTGCCATTTCAGTCTCAAAGT AAACAC/C/JGGGAGCATATGATAAATCGTAGTTTAAAGGAAGCCATAGCATTACAGAGT
WI-17108b	74 C T	GCCATTTCAGTC TCAAAGTAAA CA	AACACGATTT ATCATATGCTC CC	ACACAAAAATTTACCATCGTGACCAATTTAAGGGTATAGTTCA/JG/JTGGCATTAAAGTACATTCAACT TTTTGAGCAACCCGOCATCACCATTTCATCATCTCCGTT
EST19067 2b	41 A G	...	...	ACACAAAAATTTACCATCGTGACCATTAAAGGGTATAGTT/C/JAGTGGCATTAAAGTACATTCAACT TTTTGAGCAACCCGOCATCACCATTTCATCATCTCCGTT
EST19067 2a	40 A C	CGTGACCATT AAGGGTATAG TTC	AAAAGTTGAA TGACTTTAATG CCA	CTGTTTCTCAGAGATGACACTGCCAACAJA/JTTCACAGATTTGCATACAATACAGTTATGTATTGGC TATTCACAAATTTACAGTAGTGTGTTTTTCTCTCTGAAAAA
EST19125 8	28 A G	...	...

EST20824 8	115 T	AGTCGGGAGT GCTGATTG	AAGATTTTATC TTGGACCCGA	GTGTGAAGCCGGAGTTTATTATTATTCAATCAGTCTCTCTGAAACTCAGGGATTGAGGTTTTTA AGGATAACTTGGTGAGTAGAGGGCCAGTAAGTCGGAGTGCTGATTGT/GJTCGGGTCCAAGATAAA ATCTAGG
WI-17347	50 A	ATCCTCAGAA CTTCTCAGCCT	TCAAGCATCCA CTTGCTA	TTGGTTAAATGATGCCAGATGGGGTCACATCCTCAGAACTTCTCAGCCT/GJGTAGCACAAGTGG ATGCTTGAAGAAACTCAGTCTTGGAACTCAGACAGCAATGGAGACGGGATGTAGTGGGACCA
EST21904 b	128 G	TTCATATGGCC ATTTTAATAA GTG	GGCAGGTGTTT AGAAAGCAT	TGATTGTGGTCTGGAGCAGGTGGGCAGTTCAGTGGAGGACAGAGGAAAGTAGACGCAGTAGAAAT GAGACTGGAATCAATAGAACAGAGAAATGTACTAGGCTTTCATATGGCCATTTTAAATAAGTG/GAJTA TGCTTTCTGAACACCTGCC
EST22111 3	82 T	GAAGATCTGT CTGGCATTCTT	TGGAATAACA GCCCCAC	CAACAAATGTAGACATAAGGGAACAAATTCAGAGAGCTCAAGTCACCATGTTTGTCTAAGAGAAGAT CTGCTGGCATTCTT/GJGTGGGGCTGTTTTTCCAAGGCACA
EST22197 2	78 T	AATTATTCTGC TATCTCTGCCA	ACCATGAAGG ATGGGT	GTTTAATGATCCTCACCATAATCCACAGGAGAACTCTTAATGTTTACAAGCACCAATTTATTCTGCT ATTCTGTGCCAT/GJACCCGCATCTTTCATGGTAGAGTATCACAAGTAAAAAGTTTCTGGTTGTTTCATC TACTTAAACCA
EST22311 9c	92 T	---	---	TTTTCCATGGATTAGATCATCTTTTATTGAGTTATAATATACATAAAAAATCCACCACCTGTAAACAG TAGCATTCAATGGTTTTTACTCTA/GJGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9b	54 A	---	---	TTTTCCATGGATTAGATCATCTTTTATTGAGTTATAATATACATAAAAAATCC/JCCACTGTAAA CAGTAGCATCAATGTTTTTACTCTATTGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22311 9a	41 T	GGATTAGATC ATCTTTTATT	TTGAATGCTAC TGTTTACAGTG	TTTTCCATGGATTAGATCATCTTTTATTGAGTTATAATAT/JACATAAAAAATCCACCACCTGTAAA CAGTAGCATCAATGTTTTTACTCTATTGTCAAAGCTGGGCAACTATCACTACTATCTAATTCAGAA CACTTTCATCATCCAG
EST22319	19 A	---	---	TCGAGGAGCTCTGAGGAGC/JCJACCAAAGGACGTGTGTCCAGGGCCACCGTGCAGGCAAGTGTG GTCCAACTCCTTCTCCTCTTTACAAAACCTCAGCCTCACCCACACAAAACACTGGCTGACAGGCCCTCT TAAGCCTTTTTAACTGT
EST22433 c	103 A	AAGACATGTT CACCAAGTGA	CAGCTTCAGCT TAACGTACAGA	GATGTTAATGACTTTCTTTGAGATATGATGGAAAAATATTCAGGTACACATGGAAAAAGACATGTT CACCAAGTGAACCAATCTAACCAGAAAGCTTTACC/JGJCTGTGCTAGTTAAGCTGAAGCTGAAAT CTGGGAGCTTGACATGCTG
EST22657 9	71 A	AAATGGATCC TTATCTGCACA	AGTTTCAGTT GCATGAATTT	TATCCATTTCAAGAAAAAAAATGACTTAAAAAATACAATTTCTATCCAGAAATGGATCCTTATCTG CACA/JGJCCATTGAAGAAAAAAAATTCATGCAAACTGAAACTATGCTTT

EST22993 5b	71 T C	ATCCTTTTGT TCTACCCC	TTGCTGTAA TTTGAAGTAA TG	GCCTTTTATGTCCTTTTAAACATCAAAATGTTTTATAACACACTTGATCCTTTTGTCTACCCCA ATT/C|CAITACAGTCAAAATTAACAGGCAATATAATAGGTCTAACAGAAATGCTTGCAATT
EST23021 0	108 T A	---	---	TTATTTCTCAGCTTACCAATTTGTGACTTATATCTCTGTACAAGGTGTTTTTCTCCATGGAGAAATG TTAAATCTTTGTGAGGTTAAATTTTATTAATCTTTGCCCTT/A|ATGGTTTTGACAGTTTGTGTCTTTCT T
WI-17387	55 C G	CCTTTGCAGAT TGAAGAAAA	GCCTTTGCCTA AGATTAAATAGT AACTACT	ACAGAAATTTTAAACATGCAAGTTTCATTTACATTACCTTTGCAGATTGAAGAAAAA|C/G|AATAATTAG TAGTTACTATTAACTTAGGCAAAAGCCATTTCTTTG
EST23669 1	101 A C	AATGTAAGCT CCAGAGGCAG	CCTTCCCTCC TGTAAGC	TTTTTGGCTTGTCTGCAGAAATAGATGAAAAGAGAAAAATATACCCAGATACCTTTGCTCACTCTCCCA AGTGCACTAGGCAATGTAAGCTCCAGAGGCAG|A/C|GCTTACAGGAGGGGAAGGACGCTGAGGC CAAGAGTGTGGCTCACTG
EST23733 9	31 T G TT	GGCTGTAGTT TTGTTTTGTTT	TGCACTTTAA TCCCATCAAT	AAAGGCTGTAGTTTGTGTTTTTCTTTT|G|TATTGATGGGATTTAAAGTGCATATAACTGAAG GCAAAGTCCAAAGGCTAGAGAAAGATATAGGCCCGAGAGAGGCTCAGAGATTCTAGAGGCGGC TGAAGAATACCCACCTAA
WI-17470	83 A G	GTCCGTCCCG CCAG	CCAGTGAAGAG GCCGA	CTGACAGTCCCTGTGTGCGGGGTGCTCATGTGGCGTGTGTGAGTGAGACTTTTTTACTGCGTCCC GTCCCGCCAGCCCT|A/G|TCCGCTCGTCACTGGCTTGGTCACTTTGTATTCTGTCTTGGTTGGAAA TACCATCAGCCTCC
WI-17519	55 T C A	GTGCTCTAGC TAATGAATGC	AATTATTATT TGCAGGCAATA CTC	TTTTTAACGAAATCTCACTACTGCAAAATGCATTGTTGTCTTAGCTAATGAATGCA|T/C|AGAGATTG CCTGCAAAATAATAATTGAGATTCTATTTTTAAGAAGCTTAGAACAGTACATGGTGCATAG
EST25356 3b	95 C G	---	---	TCCTTGATACAGGTAACCAAGTTTGTGTAACATTATTCAGAACTTCACTGTATCTTCAAGTTTCTTTT CAGCATCTCTGTGGAGAAAGCAGTGTG|C/G|TATAATGTCAACATCAGGATTTCTTTTT
EST25356 3a	26 A C	---	---	TCCTTGATACAGGTAACCAAGTTTGT|A/C|ACATTATTCAGAACTTCACTGTATCTTCAAGTTTCTTGA TATCAGCATCTCTGTGGAGAAAGCAGTGTGCTATAATGTCAACATCAGGATTTCTTTTT
WI-17581c	99 C T	---	---	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCAACACATT ACTACCAAGTTATTTGATAATGATAGAACCCAA|C|T|TAGGCGCAATTTACATTGACGCGTCATGC
WI-17581b	86 T C	ATTCAACATT ACTACCAGTT ATTGATAA	CGTCAATGTAA ATTGCGCT	GGGTGACGCTCCAGAAATGGGAGACAAGCCAAATTTGGGAGCAGATTGGATCCAGCTTCAACACATT ACTACCAAGTTATTTGATAAT|C/G|ATAGAACCCCACTAGGCGCAATTTACATTGACGCGTCATGC
WI-17596	86 A G C	ACTTCTTTGTG TAAACACTCC	CATCTTTATAG CTAGAAATCGA CAATAT	GTGTGCTGTTAAATGGATAATAGCAGTCTCTCATCTCTGAAGGGTGGGAAGTAGGAGAAAGGCCTACT TCCCTGTGTAAACACTCCC|A/G|ATATTGTGCGATTTCTAGCTATAAGAATGGGGCCACTAAGTGGGTC

WI-17623	46 T C ---	---	TGTGGTTTAAATTTCCATATAATTAATGGTGGGCACATTTCG/CATGTGCTTACTGGGTC ATTTCATATATCTTTGTGAAGCATCTGCTCCAAATCTTTTGCTGACTTTGGAGTTTTTGGT
EST26419 1b	46 T C ---	---	ATTTTCATACAGAGATACAAAGGCAACTATGTGCAGCAACAATCTGA/T/C/GGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGAAGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26419 1a	35 C A AG	CAAGAAGTTTG GACTGCC	ATTTTCATACAGAGATACAAAGGCAACTATGTGCAG/C/A/AACAATCTGATGGGCAGTCCAAACTTCT TGGGAGGAAGTAAATTCATGGTAAATGTCATGATGGCTGGTTCGAGGAGAAGTTCAAAGGAGGTAG AGAGAGGAGACAGAGAATG
EST26780	69 G C ---	---	TCAGCTTTAAATTAAGGGACATGTAAATAAAAAAGATGCATTTGACAGGACAGCAGACTAGTTC AAGC AG/G/C/JAGGTTAGACCAGTAACAACAACCAAGAAAGCAAAAGTGCCTGTTCCATCTTTGGCTTTTACCA CACTTACAAACTGATACCC
EST26900 7	39 A G ---	---	TACTTCAGTTTAAGGCAATTCACACAGAGACTGTCTC/A/G/GAGACGGGCACAGAACCCAGACACC GTAGAAACACCACCACCATGCATGACGGGGAAGCAGAG
EST27152 1	101 C T ---	---	CAAAGGATTTTATTTGTTCCCTAAAAAGTAAAAATCTAGAAAATAGCAACCCACTGCAAGAAGAGTT CTATACATAAACATTTTCAATCATCTCTCTCTC/T/C/JTTACATGGTGTACTCTTTTCATGTACACAT CATCGGAAAACAGACTGA
EST27504 0a	33 G A ATTT	GCTGGTGTGAT GCTACTGTAAT G	TTTTGCAGTTTGCACAAATTTAATAATTTATC/G/A/JCATTACAGTAGCATCACACCAGCAGTCAAT AATGCCACTTTAGGCAAAAGTCTTTCAGTATTTCTGTACACATCTGTTTAAACAAGAACCCATACATT GGTAAATTCATCT
EST27662 4	51 C T CTCCAGTCTTG C	TTATGGAATG GCTTATGTAAG C	ATCTTAAAGGACCATTAGAAAAGGCCAGTCACATCTGTTCTCCAGTCTTGC/TJAGGTTACATAAG CCATTTCCATAAATTCATAGCCTTCTTCTTAGAGTAACACACACTCTTGTTTAGGAATGTTT
EST27788 3	100 A G ---	---	ATTTTATTAGGCGGTACAATTCCAAAGGTGGTAAGGGTGAAGGAAAGGAAAGGCGAGGCAAAATACAT TATTGAGCTGAAAACAACATTTACATTCAAGGAC/A/G/GCTTCCAGACAAGCCATGTAGAACCAGCAT GCCTTGGGACTGTGTGGAT
EST27828 4	58 G A AGAACCCAC C	GTGCAGAGAGG TACTCCAAGTA C	TCCTCTAAACCTTTCCTTCTGTTGGATCCCAGTGACGTGGAAGTCATCAGAACCCCAQ/G/A/GTACTT GGAGTACCTCTCTGCAACCAAGATAGCTGGCTGATTTTCTGCTCAGTCACAAATTTACTTGAA
WI-18369	58 G A ACAATC	TCAAGAAGGCC TTATCCATTT	TAAAAATTTGAGATACATTTCCCAATGTAACAATAAATTTCAATCTGTACACAAATC/G/A/JAAATG GATAAGGCTTCTTGACAAATTTCTGCCACCTCCGTTTAAACGCATCAGAACTCAATCTTATCTC TCCCGCTTCCAAAAGCTTTATTGGCAATATGCTCTA/T/C/JAAAAGAATGATCAATCTGTGTGCCTCT AAGTCAATGGAATGAAGAGCTGTGTCAGGGACACACCACCGCGTGTGTAAGGAGACTGCTGTGTG TCCACCTCTTATTCATAG
EST28036 4	37 T C ---	---	

EST28483 7	31 T A	GGAGTAAAG GTGTTCTTCT TTAAA	TTTCTGCATT TATTTTATAC CA	CATTTGGAGTAAAGGTGTTCTTCTTTAAAT/AJATGGTATAAAATAATGCGAGAAACATTAAAC GGAGAATGTACAGACAACAGACGAGACATGAGTTGTTCTGACTGTGACACATTTGGTGAAA
WI-17724	50 T C	TGGGCTCTCC TGTC	TGGGTTGGCAG TGTC	AGAAATTGGTCTAGTAATCGTTGAGGATTCGGTGATGGGCCCTCCCTGTC/CJGGACACTGCCAACC CACAGCTGGAGGGGCACCTTAAGGCACGTCAATTTGTGATTAGA
WI-17730b	68 T C	---	---	TGAGCCTGGGGAGAAAGACACAGAAAGTGAAGTGCTATTAGTTACATCATACCAAGTGTACATACTG TT/CJACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTATGTGTCA
WI-17730a	39 A C	GACCACAGAA GTGAAGTGCT ATT	TCAACAGCCAT AAATCATGTG	TGAGCCTGGGGAGAAAGACACAGAAAGTGAAGTGCTATT/CJGTTACATCATACCAAGTGTACATA CTGTTACATGATTTATGGCTGTTGATGTTGACCTCAATAACCTGGCTGATGTATGTGTCA
EST29041 5b	53 G A	GGACAAACA CATTAAAGCAT CA	GGTATTGTTGA TTTGAGGAGTT AGC	TACTCAGAAATGTGAGTTCATGAGGAACAACACACATTAAAGCATATTGTCACCT[G/A]GCTAACTCCT CAAATCAACAATACCCCTTTATTTTAGCCATGAAAAC
EST29128 4	58 A G	---	---	CTTTTGAAGGACACACAGTCTGTTGGACTTAGGGCTACCCCTATTCAGCAGGTGCG[A/G]TTATTT TCACCTGGTTACGTCGTAGGACCGTTTCCAATGAGGTTACAGTACAGGTTCTGAGCAGACATGA GTTTTGCTGGGACACT
EST29912 3	103 C T	TCGCCAGCT ACAGGCT	GCGTAAGTGC TCATTCTTCTG T	ATTATTAGGTATCTGCTGTTGGGGTGGGGAGATTGTTGAGATACTGCAACAGACACAAA AGCAAGAAAGAAACATTTCTGCCAGCTTACAGGCT[C/T]ACAGAAAGATGAGACACTTACGCATG GCCATGATACACAGCAGTGA
EST29936 8	121 G C	---	---	TATTTGGTATGCTTAGGGAAGATTCTGATTTAGAGATAATTAATCTTAAAGTTAACTCACCATGAAA TTTAAACCTTCTGTACTGGCTTCACTGATGAGGCAGTAACTACATAGGGATAAA[G/C]AGCTCAGTA TCTGGAATCATGCTTCTG
EST30223 2	99 A G	---	---	AAATAATACATCATGGGAATGGGATATCCATCCCTCAAGCAITTTATCTTTGAGTTACAAGCAA TCCAAATTACACTCTAAGTTATTTAATAATTC[A/G]GGAITTTAATTTCTCCTAGTTCAATCTTGGGA GG
WI-16260b	86 G A	---	---	CTTTCCATTGGTATTAACCTGCTAGAGGTTCTTTGTGAGGTTGATTCAAGAAGAAAAGACCCAGA GTTTCACAATATAGGTAGC[G/A]ATAACCAGGCTCACITTTCCCTTCCGTGAGAACTTCGTGGGAC
WI-16260a	59 G T A	TGAGGTGGATT CAAGAAGAAA T A	CTACCTATATT GTGAAACTCTG GGT	CTTTTCCATTGGTATTAACCTGCTAGAGGTTCTTTGTGAGGTTGATTCAAGAAGAAA[G/T]ACCC AGAGTTTCACAATATAGGTAGCGATAACCAGGCTCACITTTCCCTTCCGTGAGAACTTCGTGGGAC
WI-17835	30 G A T G	ACAGGAAATA TTGTGCTTTCT TG	TGGGGTATAGG AAACAGGC	AAGAGAAACAGGAAATATTGTGCTTTCTT[G/A]GCTGTTTCTTATACCCCAATATCATAGAAAT GTTGTTGCTTCTATAATGTTACGCTTCAAAATCTTTTGTCTTAATCAATCCAAATGAATTACCTGAAT TTCTCCTCTTGTCAAAA

EST31951 4	87	C T	GGGTTGTCCAG CCAACA	CCACCAAAAT CACCTOC	ACAGCCATTTATTATGTTTACTTGGTAATATCAGAGACTGAAACATTTTCACTCTTTTAGCAATGACA TCGGGTGTCAGCCAAACA[C/T]GGAGGTGATTTTGGTGGGAATCTTATCACAAATATTCT
EST31968 8b	95	T G	---	---	CGAATTTGTCTCTCTATTATTTGTGATCTAGTAATCCTAAAGATTGGGGGCGGGTTACTATAAGT GCAATTTATAATGGGGATTTTCTGCTT[G/A]ACTGCCCACTGATCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST31968 8a	75	T C T	GCGGGTTACTA TAAGTGCAATTT	TGTAAGAATCA GTGGGCAGTT	CGAATTTGTCTCTCTATTATTTGTGATCTAGTAATCCTAAAGATTGGGGGCGGGTTACTATAAGT GCAATTTT[C/J]ATAATGGGATTTTCTGCTTAAGTCCCCTGATCTTACATGGGAAAGGTGCAAAAG ACAGTGGTACTGCTCCC
EST32063 2	103	C T	---	---	TCCATGGATGAACAGACGCTACCATGCCACATCCCACCTCCCTCCGACCAGATGCTGTGGCCAGAGC TGGCTTCCCCTTCCAGACCTAGCTGGCTTTGTAGT[C/T]GTTCCAGGCCCATTTGAAATAGCAAAACGCAC AGTCATGTAGCACTCGG
WI-16303	65	A G	---	---	AAGGCTTTCCAAAGCATCAAAGGCACCTGGGTGTTGCTCTAAGTTTCTGGTCACTGCAGCCCC[AG JTCTGATTTAGGGAGCACCCCAAGCCCAAGTAAACATAIGGTTCTTGCAG
WI-17800	29	C G	GGGAGCACAA GAGAACTCA	TTTCTCTACAAT TAATCCCAGTC TT	TGGACATGGGAGCACAAAGAGAACTCACT[C/G]AAGACTGGGATTAATTGTAGGAAATATTTTCACAG TTTCCAAAGTCAGAGAGCTAATCCCAACCCTCTGTATCTGGAACATACACTGCTGGCATTTTCTGCG CCATGAAGGGAAATACCC
WI-17857	34	T G C	CCTAAAGTCTG GGATGACTTTC	TTGGCTTAGGT TCTACTTGATG T	AAACTGTCAATCTCTAAAGTCTGGGATGACTTTCCT[G/A]TCTACATCAAGTAGAACCTAAGCCAAAT TCAGAAATCAGAAATCCTTTTGTCCATCAAAATTCAGACTCACTCAAGCTGAATTAATGTTTCAATCT
WI-17860	121	T A	TTTGCCAGCAA AGCAAATA	ACTAAGGAGC AGTCAGTCGG	GTATCTGATGTAGTTAACCATGGCCTGTCATGATTATATTGCTATAAGGAAGGGAAACAAATCTTTA TAGTGTCCAAAGATAAATTAATCTTGGTTTAAATCTTTGCCAGCAAAAGCAAATAT[A/J]CCGACTGAC TGCTCCTTAGTCTGTGATC
WI-17866	43	A T	TTTATAGCCT ACTTCTCAA	CCGTTGTCACT AATCACACAA A	CAGCAACCTTTTTTTTGTATAGCCTACTTCTCAAAATTTGTI[A/T]TTTGTGATTAGTGACAACG GGGGAATCTACAATGCTCACATCACAGTAAACTACCA
EST33301 4c	80	G A	ATTGTT	---	GAAAAAAAGTCAAAATGTTCCCTTTATGGGTGATGCCACCAGATGCTCACAAGCATGATC AATCGCCACGAGA[G/A]ACTGGATGCCAAAGAGTATGG
EST33301 4b	63	G A	---	---	GAAAAAAAGTCAAAATGTTCCCTTTATGGGTGATGCCACCAGTATGGCTCACAAGCAT[G/A] ATCAATCGCCACGAGAGACTGGATGCCAAAGAGTATGG
EST33460 1	44	G A CA	AGCGTGGTTTT CAACTACTAA	CTGTATTATT GTTAAATATTT GCATTGTT	CTATCCAAAGATATTTATTGCGCGGTGTTTCAATACTAAACA[G/A]GTAAACAATGCAAAATATT TAACAATAATACAGTGAATTAATAAGCCATGGCATACTCCAGTTGATGTAATACTTTTGCAA

WI-17904	50 A G	AAAGCATGAC AATAAAATGA ACAC	CGCTTATGTTA ATAGTAATTCC GG	CAAGTGAATATTGATACATGGCTGACAAAGCATGACAATAAAATGAACAC[A/G]TACGGGAATTAC TATTAACATAAGCGATAACATCAAAACATCTGTAATATGCAGTTAAACAAACACAAATGA
EST34149 5	69 A G	TGCCAAATAC TCAAGTGTGA AT	AACTACTAGCG AGAACAACTA ATAAAATC	GTTTTTCTTTGAGTGACACAAGCTTGTTCAATTTTGAGAAAATGTGTGCCAAATACTCAAGTGTGAA T[A/G]GATTTTATTAGTTGTTCTCGCTAGTAGTTTTGGTATTTCTATGAAAAAAGCAGCTAGTTTCAGC TTACAAATCACACAAGT
EST34343 8	95 C A	---	---	TGGGAAAACATAAGTTAACTCAAGAAATATATTCCAGTCTTTATGTTACTAAACATTTGTAATAGTGT TTTTATCAATGATGCCGAGGTCACTGCT[C/A]TACAAAGATTAAAGAACTTACCATCAACACTTC CAGTGCATCAA
WI-17982	98 C T	GGACCATATG ATATATAACT CCTAAAGC	CAGAAATTATG TGATAATACT CCTTCC	GGTACACAATTTTAAATGGAAGGAACACACAGGTATGTTGAAAGAACAATCAGTACAGCTGGAGACAGG GAGGGACCATATGATATATAACTCCTAAAGC[C/T]GGAAGGAGTTATTATCACATAATTTCTGGGC GCTACAGAAGTTTTTCATCA
WI-17993	118 A C	---	---	CTCAGTAACTCCGGTGATAATCTGCCATTATTGATTATTTATGATAAAACACCTCTCATTTGTGA AAACACAGCTAAGGGTGACATCTCCAGACCCCAACCAGTGTCCCTGTAATGT[A/C]CTGCTGAGAGTCC ACATTTTGGAAATCCAAT
WI-17996	84 A G	GTAGAGGCGA AGGGAACAG	AGGCACATGGG CAGC	CCCATCCAGAAACCCAGTGTGATGGTGAAGCAGCATGAAAACAACATCTCCCAGGCCCTCGCAGT AGAGGCGAAGGGAACAG[A/G]GCTGCCCATGTGCTCTAAAGACGCCACCCCTCAGGTTTGATGT CACCTGTGGGAGACCGGGT
WI-17136	33 C G	---	---	ATTCTTTATAAAACACCATGTCCCTAAAATGT[C/G]ATTCAACATATATGCACACCTTCGATGTAT AGGACACTGATCAAAAAGACAGAGAAATGTGTCCT
WI-18041	24 A C	---	---	GCCACTGAAAAAAGGTGCTCTTCC[A/C]GTTTCTAACTCCCTGGACTCCCTCATTTGGAACTGAAGCTC ACAGATGTTTCAGCTGGACTAGTTTAGACTTTGCTGTATTTTAAAGGCAGTGTGATGCTCCAGGAT TCAAATACTTAATCA
EST35164 8a	57 A G	CACAGCCTGC CCCC	CCCTCTGGATT CTGAATCTCAA	TTGAACCAAGGCCCTAACAGATGACTCAGCAGGGCCCTTCAAGCACAGCCCTGCCCC[C/A/G]TCTTGA GATTCAGAAATCCAGAGGGTGCTCAGTCCCTGGTTTAGGTGCTTCTGTGACATTTCTCTTG
WI-18052b	67 A G	---	---	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTTCATGTACGAATC[T/C]TGGTTACACATCTT A/GJACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAAATGTCGTATGCTCAGCACAGTGTCTGGC ATGGCCCATCCATGCTTT
WI-18052a	50 T C	CCTGAGTCTT TCATGTACGA ATC	CTCAGGCAGCT CTGCTGT	AGCGAATGAAAATGCTACATAGGCTCCCTGAGTCTTTTCATGTACGAATC[T/C]TGGTTACACATCTT AGAACAGCAGAGCTGCCTGAGGGAGGGTTGTGTTTAAATGTCGTATGCTCAGCACAGTGTCTGGC ATGGCCCATCCATGCTTT
WI-18054	46 G A	GGGAGTGGGG GAGTAAAA	CGTCACCCTGC TTCCA	CTGTTGTGCTGAGAACAGAGGGGTCAAGGGAGTGGGGAGTAA[A/G]ATGGAAAGCAGGGTGACG CATGCGAGGAGTCCAGACAAAAGACGGGTGATTTTGTCTCAGGTTGGTAGCAACAGAGGTAATG

WI-18064	54 G A	GTAGTGCTA AGCTGTATTC	CCAGTGGTATG ATTGTGACATT C	CAGTGGCAATCATCTCTCAAAACCCTGTGGGTAGCTGCTAAGCTGTATTTTCAGAG/GA/AAATGTCAC AATCATACCACCTGGGGAGAGAGAGTAAAGACACAGTCTTATTAGGTGCCAACTGGGTACCTGGGAG GCAGAAA
EST35347 2	97 T C A A	GCATAAAATT TTCCAGTTGGT	CCCTCGGCACC TGCT	TTTAGCACCATTCTTAGTGAGCAGGATCTTGTATCATGGGTGGAAATTTTGTGTATCTGGGCTTCAT GGGATGCATAAAATTTTCCAGTTGGTAAAGT/CJAGCAGGTGCCGAGGGTCTGGATCAGAAAAAAGG CAGGCA
WI-18070	28 A C	AACCCACTAC TTACTCAGAGT GTGTAT	AAAACTAATA AGAAACTGGA GGTTTT	AAACCCACTACTACTCAGAGTGTGTAT/CJATATTACACATGAAAGATATAATCTTAGAAAA ACCTCCAGTTCTTATTAGTTTGATATTTCTGTACTCAGAGCATTTTAGGTGCAAAAGGATATAA
WI-18080c	80 C T	---	---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTTGTAAATTAATCTACTATGCCGTG TTTGACTTTTAT/CJ/TCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080b	65 G A	---	---	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTTTTGTAAATTAATCTACTATGCC[G/ AJGTTTGACTTTTATCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18080a	41 T C	GCAAAATATCA ATATCAAACT AGTCTCTC	CAATTTACATA AGAGATAAAA GTCAAACA	TGGCATAAAGTTTGCAAAATATCAATATCAAACTAGTCTCTCTCTTGTAAATTAATCTACTATGCG CGTGTGACTTTTATCTCTTATGTAAATTGAAGCCAAATGCATGTTAATCCTTCTCCTTTGGTGAT
WI-18086	63 G A	---	---	GTGGGCATCCTATAAAGCAGCCCATGTGTTGAAACAAATGATATGCACAGAAAGCATACTTCT[G/A] TGGCTTTGTACACGGGTTTCTTCAAGAGGAAGATGACTCAGCCCTCCAGCTTCTGCAGTCTAGC TTAGGAGAGGTGTTTGA
WI-18115b	71 C T	---	---	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCTTTAGTGTAACCTTTGGTATCCC TT[C/T]TTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAGAAAGGGGTGAG TCAGT
WI-18115a	70 C T T	TTAGTGACCT TTGGTATCCC	AGAGGTCTGTC TTTCATACCA A	AACTACATAGTATGGTGCCTGGCTTAGAATCAATGGGTAAAGCCTTTAGTGTAACCTTTGGTATCCC TT[C/T]CTTTGGTATGAAAGACAGACCTCTGCTGGAGGACTCATTACAATGTAAGAAAGGGGTGAG TCAGT
WI-18136	78 A G	---	---	TTTTGAGAAAGCACTCTGTAAGGCAAGGATGCATCAAAAAATGGCTTTGAGGATTAATCTTCTCTTA GGTAATTTGC[A/G]TAAGAACAAATAAAGCATTTTAAAGTCCACTGCCGCTTAGAACT
WI-18169	115 A G	CCATCTTTCCG	GAGTTCTGCTT	GGCAAAATATTTTACATCACACCTGGAAATCTGCCAAGTCTTTCCACTATGAAGGCAATCGTAGAG TGTGCAGGAGGAAAGGTGTTATCCAAGCAGCCATCTTCCGGAAGCTC[A/G]JGGAGCACAAAGCAGA ACTCGGTGGTAGAGTGA
WI-18190b	26 G A	GAAGCTC	GTGCTCCA	TGAAAGAGTCGACACAGCGGACACT[G/A]TCATAAGTGGAAACAAAGGATGAAGCTAATCATGGAG GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGACATTAATCCTGGCGA

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WI-18190	62	G A	---	---	...	TGAAAGAAGTCGACACAGCGGACACTGTCTATAAGTGGAAACAAAGGATGAAGCTAATCATGGA[G/A] GCAAGCTCCCTGGAGAGACAGGGACAAAATCAAGAATGAGCTGGAGACATTAAATCCTGGCGA
WI-18181	100	A C	CAGATC	AAATATATAC AACACTCCCTT	CGTTTTACCAT TTGTTAAGCTT TTG	GACAGTGAACAACTTGAACACACAAATACAACAAAAACATTAGGAACAAAGAAATGTGTAATCCAA TGTTGTAACAAATATATACAAACACTCCCTTCAGATC[A/C]CAAAAGCTTAACAAATGGTAAACGTA TGTTCTTGAAC
WI-18215	78	G A	CTGCCCTC	AGCAGAGTTC	CCTCCCTCTCT CCCC	ATTACATACAAGCAATTCCTGAGTACAAACTAGGGACAGGTATTTACAAAAACAAATAGAGCAGA GTTCTCGCCCTC[G/A]GTGCGGGGGGAGAGAGGGGATTACGCAATTTGGTGGAGTATGTTAATT CCCTCAAGTTAATTCCTTC
WI-18232	60	T A	AA	TGGTGTGATT GTGATACACTT	AAATAAAGGT TTTCAGGGGT C	CATTTCCGAAATCTGATAGTTAAATATCCCGTCTGGTGTGATTGTGATACACTTAAG[T/A]GAA CCCCTGAAACCTTTATTTTGAATTTGAAGTTTTGCTCAGAAACTGGCAGAACTTTTCACATTCTG AC
WI-17892	76	T C	ACA	GGAAACTTG AGTTTGAGATC	CACAGAAGTG AATAGACTAGT GAGACA	TTTAAAAATGCTTAGATTTTCTCAGTATTTTATCAATAGTGTGAAGCTGGAAAACTTGAGTTTGAG ATCACATA[T/C]CTGTCTCACTAGTCTATTCACCTCTGTGGCATTTCGGCAGAAGTGGC
WI-18242	30	G A	AATCGTAACA	CCCCAAATGTT AATCGTAACA	GCTAACACTTC TACTGTAAACAG CTTTC	AAATCCCCAAATGTTAATCGTAACATACT[G/A]GAAAGCTGTTACAGTGAAGTGTGACAAAAAT TGGATGCCACAACCTTATCTCAACCTTCTTCAAGCAAGTGAGGGTCAGAAATGTTTCTTGCCTATATC TGCAAAAGATCGAACAAAG
WI-18266c	119	C T	---	---	---	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATGAAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAACTGCACAAATGATGCATGAATCCACAT[T/C]TGAGAC CCGCAACTCCGAGGTACCT
WI-18266b	124	T C	---	AAATAGGAAA TATGGACTATC	---	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATGAAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAA[C/T]TGACACAAATGATGCATGAATCCACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18266a	97	C T	TTCAAA	GCTGTCAGCTA TTGTTATTTCA	TTTCATGCATCA TTTGTGCA	GCATCAGACATCACCACTCCTGAAAAAACCTTCTACAAGAAATGAAAAAGTGTGCAGGACCTAATA CTGAAATAGGAAATATGGACTATCTTCAAA[C/T]TGACACAAATGATGCATGAATCCACATTTGAGAC CCGCAACTCCGAGGTACCT
WI-18312	73	A G	AA	---	GGAGAAAAGG GAGCAGAAGA	CTGAGCCTCTGGATATGTGGTTAGTGTCTATCATTAATTTGGAAAGCTGCAGCTATTGTTATTTTC AAAT[G/T]ATCTCTGCTCCCTTTCTCCTTTTCTGGGATTCTCATTTGCTGATGTGTTATA
WI-18330b	66	A/G	---	---	---	AAACATCTACAGCTGCTTAGGCCATCCTGTGAAGAAATCAGGGATAAGAGCTGAGGAACAAGAGGGI A/GTATGTAGGCAGTGAGTCAGGACTATGCAAAACCATATAAATAAGAACATAATTTTTTGTGAT TCACA

WI-18330a	49	G A A A G A	TCCTGTAAGA AATCAGGGAT	AGTCTGACTC ACTGCCTACA	AAACATCTACAGCTGTCTTAGGCCATCCTGTAAAGAAATCAGGGATAAGA[G/A]CTGAGGAACAAGA GGGATATGTAGGAGTGTAGTCAAGGACTATGCAAAACCATAAATAAAGAACATAATTTTTTTTGTGGAT TCACA
EST37564 5	85	T C A G A	AAATTCAAGC CATCTACAAA	CTATGGAGGCC TCAATGAGA	AAATTAGTTAGCCATAACAGGCTGGAATTGCTGGTTAGATACTGCATGTATTTTAAGCTAAATTC AAGCCATCTACAAAAGAT[C]TCTCATTAGGCTCCATAGGCTGCAACACATCAAAAGGCATTAC TGTACTGGAGAGGACTGAG
WI-18327	104	G A T T	AAACAGCTTT CGTTAGGCTAG	CGCATACAATG GCTCAGC	CAAAGGGATTTTATTACCTACAACAAGTAAGGAGGACAGCTGGGGCAGTTTCCCAAAGCAGTACCTC CCAAACAATGGTGAACACAGCTTTCGTTAGGCTAGT[G/A]GCTGAGCCATTGTATGCGGAGGCAGA GT
EST37624 6b	102	G A ---		---	GTGGCAAGAGCAGCTAAACACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGCACGCTGATGG CCTGCAGTCTCTGCCGTGCTGGCTCTCTGGACG[G/A]TTCAATTTACATGGCTGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
EST37624 6a	58	C T ---		---	GTGGCAAGAGCAGCTAAACACACTCATTTTGCATGAACCTCCAAATACGAACAGTGCAC[G/T]GCTGA TGGCTGCAGTCTCTGCCGTGCTGGCTCTCTGGACGGTTTATCTACATGGCTGCTTTGCGTCC TCTGACCTCCCCATTCC
WI-18357	89	C G G C A T C A A	CCAGCCCTTA GCATCAA	AAGGACTCAA AGACTGAAGAT GA	AATGTTTAAAGTCTACCGTGTAGTGCCCATGAAGCCAGCCCATGAGAGACATTTTCAGA TAATCCAGCCCTTAGCATCAA[C/G]TCATCTTCACTTTGAGTCTTCCAGCCAGGTCCTCAAGCTT GTGGACACAGACAAAGCC
WI-18012g	117	A G ---		---	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTGCATCTCCTTTCAACTTTCCAGACTTGGAAAG ATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCCCTTCGTGA[G/G]GTGTTTCCCTGATACA CGCTGACGTTTCGAGGG
WI-18012f	113	G A ---		---	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTGCATCTCCTTTCAACTTTCCAGACTTGGAAAG ATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCCCTTCGTGA[G/A]TGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012e	112	C T C C C T T	GCCACTTTTGC CCCTT	TCAGCGTGTAT CAGGAAACA	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTGCATCTCCTTTCAACTTTCCAGACTTGGAAAG ATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCCCTTCGTGAAGTGTTCCTGATACA CGCTGACGTTTCGAGGG
WI-18012b	46	T C ---		---	TTTTATCTGGTCAGCTCCTTCTTAATGGCCTGAAGGTGCATCTCCTTTCAACTTTCCAGACTTGGAAAG AGATCCCCGCTGTCCACTCTTAGAATTGAAGCCACTTTTGCCCCCTTCGTGAAGTGTTCCTGATACAC GCTGACGTTTCGAGGG
EST38390 4	75	A G C T C T G C A T T G	GCAAAAAGGA CTGATTATAA	GCTAAAGTCAG CTGATTATAA ACTTAA	CATATCATAGCCAGATCTACAACCCAGAGTAATCCCATGGTTATGTTACATGGCAAAAAGGACTC TGCATTG[G/A]TTAAGTTTATTAAATCAGCTGACTTAGCATTTGGAGATTATCTGGAT

EST38512	91 T G	TGACGATGCC	CACTGCACTCT GGGAAGC	TAATAAAAACTGACCCCAATTGGTAAACTGTGTCTGGACTGAGAGAAACAATGAAAAATCTGTAAAT ACCTGATGACGATGCCAATACTTCGTTGCTTCCAGAGTGCAGTGATACTGTTATAGCC
EST38519	24 C T T	CCTGCAOCTCC TAAAAGATCT	TCTGTTAGGAC TTGGGGA	CCTGCAOCTCCATAAAGATCTTTTCCTCCCCAAGTCTAACAGAATGGTATATCTCTCGAAAA AGATGAACGTCATCAATGGATTGTGCTCTCGTTTTCAGCTTTGATTTTTTGTCCITGAGAACCTTG TCCTCCCTGCTGATTT
EST38575	66 T C A A	GAACATCCCA TGTTCTGTTT	AGGGAAGGTA GTATAACACAT AAGAGA	AGTGGTCAAAATGTAAAACTAATGGGGACACCAAGCCTCAGGAAGAACATCCCATGTTTCTGTTTAA TCTCTCTTATGTGTATACACTACCTTCCCTTCTCTTCTTATACACATAGATTTTCTTAAATGCAGC CCA
EST38616	101 C G CTT C	CCTGCTCGGC	GAGGAATGGAT GGTGGC	CCATCTAGGCAAGGTAACCTGAGCTCTGTGTCTCCAGAGTGGTGCCTCACGCCCGGGGCCCGCTGG AGTCTCCGGGGCCCCGCCCTGCTCGGCCCTTCCTG|G|GCCACCATCCATTCTCCAGGGG
EST38652	59 T C CATTTCAA	TCTGAACCTGGG	TTGCAAAAAATG AAGGAAAAA	TATAGTAGGTACTTTCTTGTCTGCAGCAGGAATATTACGTCTGAACCTGGGCATTTCAA|T|C|GCGTG GTATTTTCTCTTCTTCTTCTTTCATTTTTCAGAGTAAAAAATCAT
EST38654	42 T C GTTTTACA	AATGGTCATTT TAATATATCA	CAGTATGGTC CTTAATCTTCT ATC	CTCAAGCTGAGAATGGTCATTTTAAATATATCAGTTTACATA|T|C|JAGATAGAAGATTAAGGACCAT CACTGAGGTCACATAGCTCAGAGGCAGAGTTAAGATTTGGACCCAGGAGTTGGTTCCAGCATATA GGATCCTCACTCACTACCTGGGACAGCCTGAGAAGGGACATCCACCAGACCTACTGATCTGGAGTCCCA CGTCCCC|A|G|AGGCCAGCGGATGTGTGCCCTCTCTCCCAACTCATCTTTCAGGAACACGAGG ATTCTGCTTTCTGGAAA
EST38759	86 A G GGTGATATGG	TGCTCCCTGA	TCACCATCGTG GACTTAAGG	TGACCTTGATTTCTTCTAC TAGAGGGAGAAGAAATCACCTACCTTTTGGATGCCCTCCACTCTACTTGT CTCCCTGAGGTGATATGG|A|G|JCTTAAGTCCACGATGGTGACCTAAACTCAGTTTAAAAATCTTGCC TAGCAGCACC
EST38775	40 T A C	AATCAATAGG AGAGGATTGG	GGCTTTGCTCT GAATCAAA	GACTCTCAACCAAGAGAAAATCAATAGGAGAGGATTGGCT|A|JTTTGAATTCAGAGCAAAAGCCCT CTTACTGAGAGGTGAGCCCCCAGCCCCCTCCAATGCCCTTTCATGAGTTAGGATCTCCTAAGTGGTAC AAACAACCAACATGGTGG
EST38815	91 C A C A	TGTTTATGAGA ACCCATTACA	GCTGACTGGCA CATGCTTT	CACCCCATATTTGACCAAGGGATGAAGCCTAGCCATGCTCTTTCACCTTATGTGTTCATTCAACAAG TGTTTATGAGAACCATTACACA|C|A|AAAGCATGTGCCAGTCAGCAGATTCTGTAATAA
EST38858	98 C T TGAC	CACGAGTAA AAGAACTCA	GGAGCGAGTCC AAGGAGAA	TCCTTACTGTGCTTACAACTTTCTCCAAGTTTGGGGTGGTTTCCATATGTTTATTGTTATTGTTATTA TTCAACACGAGTAAAAAGAAACTCATGAC|C|T|TCTCCTTGACTCGCTCCTCCCAATCTCGAT ACCGACTGCACCTGTTG
EST38865	72 T C TGTCGATGC	GCTGTAGAAAT AGGACACAG	GGAAGGACGG AGGACACAG	CCTTAATGGATTTTACAGCTCATCTGAGTCTCTGCTGTGTTCTCTGAGGAGCTGTAGAATTTGTGTCG ATGCT|C|G|CTGTGCTCTCCGTCCTTCCCCAAATGAGCACATATGCAGGGCAGGCAAGAGCATGCTGGA TTTGTCTTAGTTGTTAA

EST38878	47 T C	AAACATCATT ACTAGCCTAG ATCCTAA	CCITCAATAAA TCTCATGTCCT CA	CCAATGAGAACCAAGTAATTAACATCACTACTAGCCTAGATCCCTAAATTCITGAGGACATGAGATTT ATTGAAGGGAAATCCTCAATTAATATGAACATTTCTTGAGAAATGGGAAATTTGAAAAACATTCCCTC TTATTCATGTGTCATCTCACACATCTTTATTTATTTGTTTCACTTTCTCAAAATATCGGATTGTTGC TCATGAGAAATAATGGCTGAGGGAGCTGGCAGCGCAGTCTTCTCA[G/C]GCTCCCTGGATAGCTAAAT TTA
EST38882	113 G C	---	---	TTATTCATGTGTCATCTCACACATCTTTATTTATTTATTCITGTTTTCACTTTCTCAAAATATCGGATTGT TGCTCATGAGAAATAATGGCTGAGGGAGCTGGCAGCGCAGTCTTCTCAGGCTCCCTGGATAGCTAAAT TA
EST38882	35 T C	TGTCATCTCAC ACATTCCTTAT TTTT	CGATATTGAG AAAGTGAAAA CAA	
EST38909	47 A G	GCACAGCATG GCTAAACG	GGTATTGTTG ATTCCCATCTT T	GCACTAACTAACTTTTCATTTGTGGATTGACAGCATGGCTAAAACG/GJTAAGATGGGAATCAA CAATACCATTTGAAGATATGGAGCAAGAGAACTCTCACATACTGCTGGAGGGAATATAAAT
EST38911	85 A G	GTTGAGGGAA ACTTATAACCT CAC	TGTTGTTTTGT GAAACAAGCG	AACTGAATGGCAGTGAACACACTACACATCAAAACTTAGGGAAATGTGGTTAGTGTGACGTTGAG GGAAACTTATAACCTCAC/GJCGCTTTGTTTCAAAAACACAGCAGACACAGAGATTTTCCAACTC CAGCAATGACAGGCTAGG
EST38955	30 G C	TGAATCCCTT GGTGG	CACTGCAATCT CAOCCCC	TAAACATCCCATTTGAATCCCTTGGTGGG[G/C]GGGGGGGGTGGATTGCAGTGTCAAGATAAA TATCACAATAATATCAAAAACCTTCAAAATGTCTATGCATTCACACACTGACATGAGCCACAAAACATT CCTTTCACAGGGACTGTAC
EST39002	42 G A	GGACCCCTCGG TGACC	CTGGCAGGGAG CCTG	CCTGCTATGATGCCTGGGCAGATCCGGACCCCTCGGTGAC[G/A]CAGGCTCCCTGCCAGGGCTTGG CCCCTGACCGGGCTCCCGAGCTCGGCCCTGACTGTGGAGGAGCTGAAATACGCTGACATCCGCAACCT C
EST39004	79 T G	GGTGGTAAGG CCTAAGGAAT	ATCTCGGCTGG CGGC	CACGTGGCCCCCTAAGTTCCGGGCTTCTCTCAGTCTGGATGGCTGTGGGAAAAAGCTTGGTGGTAAG GCCTAAGGAATTTGAGGGGCGAGGGGGCGATGCCGCCAGCCGAGATGGTCTGTAAAGCCTGTGGGTC AAGACCTAACTTCTGGA
WI-16398	90 T C	TCCCTATTATT CCATGATATTT TCA	GAATGGTTTGT GAAAAATATA TTGATAT	AAAGATAATGTGTCATCAACGCAACATATAGAAACATAAAAGAAAAATAAGTATCCACCCTAAAT CCCTATTATTCCATGATATTTTCA[T/C]AGCAACTAGTATATATCAATATATTTTTCACAAACCAT TCAGTTACAC
WI-16403	69 T C	CCITTTGCTC AATTTTAAAC ACT	TAAGGGCTAAT TCCCTATATAA AAAG	GGTGTCTTTCATGATTTTCTCATTTCCCTATCAGGTTTCTGGTCCCTTGTCCCTCAATTTTAAACATT T/C]CTTTTATATAGGGAATTAGCCCCTTAACTGTGGTACATGCTGCCAAAAATTTCTCCCGATT
WI-16406	24 C T	GCITTAATGGC TACAGAAAAGA AGG	CCAGAACCAG ATGTGTTTAAA AA	GCITTAATGGCTACAGAAAAGAG[G/C]TGGTTTATTTTCTTTTAAACACATCTGGTTCTGGCAGC AAGTTATATTATGCAATTTAGAGCAATAGGTGCCCTGAA

EST39236 0b	57	C G	TCATCTGAGA ATAAACTTCCT GTCT	CATTATAGGTA CTGAGTCATAC ATTAAACA	TCCTTTTATTTCATGATTTGTTTCATCTGAGAAATAAACTTCCTGCTAAATTTCCAA[C/G]ACTATGTT TAATGTATGACTCAGTACCTATAATGAGACTGGAAATATATTACCTGGCAAATGAATGAGGIGICTC TTT
EST39294 4	63	G T	CCTGAAACAG GGATGCC	GCACAATTAA ACATAGTACCG AGAA	CAACAGACCTTTGGTTGAGCTCACCTGGTGACAGGAGACTCCTACCTGAAACAGGGATGCC[G/T] TTCTCGGTACTATGTTTAAATTTGTGCTGAGCCAGCAACCCTCGAGTTACCCGGCCTTTTACCCACGGC AGCTCTGCTTGTCTGCAT
EST39366 2	72	T C	---	---	AGAAACATTCTGTCTGATCAGAGGAAGATGTATGTAGAAAATCAGAAATCTGACTGAATTCCTAAA ATCTATTC/JACACTGAGAGGAAAATGGAAGAAAATGTTTGCATAAAAGCTTTTCCCTGACTCTCA GAGGGTTTCAGA
EST39371 9	86	A G	CATTGGATTA GGGTGAGG TT	TGATTTGAGAC ATTTACATTT TT	AAAAGCTGTAGCTGGCAAGTCAAAGTTTATTTATGTGTAAATCCCAGTTGAGCATTTTTTCAT TTGGATTAGCGTGAGAGG[A/G]AAAAATGTGAAATGTCCTCAAATCAAATGCTTCCTTCTAAAGATTA GACATTGCCCAACCCTGC
WI-17177	23	A G	---	---	ACAAGTGACATATCCAACCAACC[A/G]TCCATCCCACCTGTGCCCTATTCCTTGTGTTCTTT AGAGCCTTTTCAGCTATTTCTGTGAAGCAAACTGCACGAAGGCCTCCCCGTACTCCTCCCTGGAA G
EST39428 8	31	C T	GCTCCCCACA TATTGTATT	GGTCCCTTATG AAGCCACC	AGGTTCTCTGTTGCTCCCCACAATTTTGATT[C/T]GGTGGCTTCAAGGGACCCAGGATTCGCAAT TTCTGGGTGGGCTAGGTAATTCCTTGTGCTTGGTCCACAGAGACAATTAAGAAAGATCAGGTCT GGCTGTGTC
EST39430 2	45	A C	GGCAGAGGAA TAACTGATGTT	CAGGGGTGGG GTATTG	AATTTAGCAGAAACAATGAAGTTGGCAGAGGAATAACTGATGTTCA/C]CAATACCCGACCCCTGA CCAGTACCTTTCCCTCAGGCCCAGGCTCCGGTGAGGATGTCCTGGG
EST39446 7b	117	C T	CTACTGACAT AGGACTTCA	TCCTGGAAAAC TGACATAAACC	AAAGCCCTGTAAACTGAAGCTAGACAACGTCAACTTTGGAAGAAAAATAACAGGAACCTATTATAT ACGTAAATCACTTTTCATACCTGCCTACTGACATAGGACTTCAGAGTAATA[C/T]GGTTTATGTCAGT TTTCCAGGATTGTTCTCCC
EST39465 2	80	A G	AATGCAGGAG GGTGGC	CAATCTCGGC CCTCT	ATGGTGTCAATTAGAGGGCCACAGGGGATGGGGAGTAAAAATAACATAAACGAACTGAACAGAAA TGCAGGAGGGTGGC[A/G]AGAGGGGCCGAGATTGGGTGTTTCAGGGCAGAGAGGTGGAAGACCAG
EST39501 0	81	A G	AAAGATTCCT GTAGACATCT	CAC TTGCAATT CTGAAGGCT	TGCTTACAACCCATAACCATAGGCCATGTGTTTCAGACATTTTGACCAAGCCTAAAGATTCTCTGTAG ACATCTAACATTAG[A/G]TAGCCTTCAGAAATGCAAGTGCAAGTTCAAGTCAAAACCAATTC
WI-18387b	84	A C	---	---	CACAAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACATTTGTGGTCA CATGCTTTAGCCATAC[A/C]CATGGTAACATTGACTATGGAGTCTTGTGAAAAGTGTAAATGTGCGGATG GCTATGTAGACATAAAGA

WI-18387a	57 A G	CCTACTTTGG TGACCCCAT	GCTAAAGCATG TGACCACAAA	CACAAATGGGACTGCTGAAGAGTGGACAGTTGGACCTTACTTTGGTGACCCCATACAGTITTTGTG GTCACATGCTTTAGCCATACACATGGTAACATTGACTATGGAGCTTTGTGAAAGTGTAAATGTGCGATG GCTATGTAGACATAAGA
EST40601 9	78 A G	GCGTGGAAACCT GAAACAC	TTCTTGAAGA AAGGGTC	TCCAGGATGGTTTATCCAAAGCTGTGACGGTGAACATTAAAGACGAAAGAGGTGACTCGCGTGGA ACCTGAAACACAG/GAGACGCTTTCTCCAAAGAGGCTGTGGCGATCAGGCCACTCAAGG
EST41935	32 A G	AGTGATCAC ATCTTCAGGAT	GCACACCCCTC ACACTGTTA	TCCATTCAAGTGATCACATCTTCAGGATAGGTAG/GATAACAGTGTGAAGGGTGTGCTCATTTTCTTC AGCTGTGAGTAGAGGAGTCTCCCGAGAGTAGCAGTTTGA
EST43091	28 C T	CATTCTGGTCT TTATTTTGGGA	AAAACGTGATTT GTTAAAACATG CTAC	ATGTCATTCTGGTCTTATTTTGGACA/C/TGTAGCATGTTTTAACAAATCAGTTTTTTCATAGGCAA CCTTTTGAACATCAAAAGAAATACAATATATTTTACAAAATTTCTCATCTGTAATTTCA
WI-18420c	108 T C	TTCCATTAAAC AGGAAGTTTC	AAATTCTCAGC ATTGCTATAAG C	AGAGAGACAACAAGAAGAATAAGGGGAAAATGGGAAGAACAGAGTGAATTTAAAGCAAATCTTTGGA TTCAGATTCCATTAAACAGGAAGTTTCTCAAAAAAATCAAAATTCGTTATAGCAATGCTGAGAA TTTCATAGGTACTTCATGGGA
WI-18420a	38 C T	GAATAAGGGA AAATGGGAAG	CCAAGATTGTC TTTAATTTTAC TC	AGAGAGACAACAAGAAGAATAAGGGGAAAATGGGAAGAA/C/TJAGAGTGAATTTAAAGCAAATCTT GGATTCAAGATTCATTAAACAGGAAGTTTCTCAAAAAAATCAAAATTCGTTATAGCAATGCTGAGAA TTTCATAGGTACTTCATGGGA
WI-18425b	101 T C	CAACCCTGTCT AGACAGATTTC	---	AGCTGATCAGCTGCTGTTACTGTTTATGTGTGGCCAGGGAAGCCAAAAGATCAGACACCCCTGTC CTAGACAGATTCAATGCACACAACAACAGGAGGT/CJGGGGGTACACGCGGAGAGCCCAAAGAC TAGGGC
WI-18425	81 A C	CACCTGTCTCT AGACAGATTTC	CCTCCTGTGT TGTGTGCA	AGCTGATCAGCTGCTGTTACTGTTTATGTGTGGCCAGGGAAGCCAAAAGATCAGACACCCCTGTC CTAGACAGATTCA/CJTGACACAACAACAGGAGGTGGGGTCAACGCGGAGAGCCCAAAGAC TAGGGC
WI-18449	129 C T	CTTTTGGCTCT AAGTGGGACT	CTCCCCTGACT GTATCCAGA	AAATTGAGGTCCGGGTGGAACATAAAAAGGAAAGGAAGAAAGTAATCAAGGGAGGCCAAAGTG GGAAGCTGTATTGCTGATCTAACGTGCTTCCAGTTCTCTTTTGGCTCTAAGTGGGACTA/C/TJTC TGGATACAGTCAGGGGAG
WI-18457	120 T C	---	---	ATCGCTTCATTGAAGCCTGCTTAATTTCTCTCAGTCAACTGGTCCCCCAAGACATTATTTTATTTCTT AAATGTCCAATATCTGCCGTGATCTGTGTGTGTGTCACATTGGGGCCACAGT/CJAAATAGGCTAAA AGGCAGTCCCACCTGCT
WI-18462	39 A G	CCACAATGGC AGAGGTGA	TTTAGGCTTTG AGATGGTTTCT	GGTGTATAGCTGCTGTGTACACCACAATGGCAGAGGTGA/GJTAGAAACCATCTCAAGCCCTAAAA TATTTACCATACATCCCTCACAGCAAAAGTTTGTCTAATCTCGGGTTTAGGGACTCCATTGAG
WI-18476	60 C T	GGTGGGGTGC GAGG	GCACGATGGGA GTGACC	TGAGGACGTGTGACAAGCTCCAGCAGGGGTGGGGCCGGCTGAGGGTGGGGTGCAGAGG/C/TJGGT CACTCCCATCGTGCCCTGGCGCTCCCTCCACTCACCCACACCTGGCCAGTCCACGTTGAGGT

WI-18491	109	G A A A A A T G G T	A A C A A A T G G T	CGTGTGATTT	CTAATGAGATGAATACATGGAAGGGGTTTAGCACAGTGCCTAAACACACAGTAAGTAACCAACAAT
EST50757			AGGTGGTATT	TCITGTAATCC	GGTAGGTGGTATTAATACTATTATTAAATCCAGAAATGAC[G/A]GGATTACAAGAAATGCACA
b	79	C T C T G C T C T	G A G C T C G A G G	ACCTTCACCC	OGT
				GGC	AGCCCCCTCCACTCCACTCTGCTTCCACAAGTCGGCTCCCGAGAGCTCGAGGCTGCTTCTTTTATAT
					GTGACGGGCC[C/T]GGGGGGTGAAGGGTCAGAGA
					GATCTTGGAAAGCAGTGAAGAACTAGAACTAAACATCTTACCAGGTGCTGAAGAAAAAGTGCTTCGTTTTAAT
					TGCCAAGCAGGGATGTGGACATTTGGATGGTGACTT[C]CCTGGGTGGTCCCATAGATTCCACCAT
WI-17675	103	T C A T G G T G A C T T	G G A C A T T T G G	GGGGAACCACC	TGCCCTCTAATGGTGCTCA
				CAGG	GATCCATTACCTAGGGTAAATTCCTCTGAATGTCAAAACAAAGAGATAAACTACATTTGGGTTTGG
					G/TAAAGTCCCTGTAAATGATGAATCAAGAAATCCTCAAGTCTGCTTGCCACCCATTTAATACGTATT
WI-16543	67	G T T G G	C A T T T G G G T T	G A T T C A T C A T T	TTTGTAAAGGCTGAAGTT
				ACAGGGGACTT	ATCTGAGATGGAAGAGTTTCATCCCAAAACCCTGACCCCTGACCCCGAGTCCATGGAAAAATTGTC
					TTCCACAAAAACCGGTCCCTGGTGCCAAAAAGTTGGGAA[C/G]TGCTGGTGGGTACAAAAAGTAATT
WI-17687	107	C G T T G G G A A	G C C A A A A A G G	T T A C T T T T G T A	G
WI-17690b	79	A G		CCGACCAGCA	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCATTTTCTAGCTGTGTTGATTT
WI-17690a	63	G A T A G C T G T G T T	A G G C A T T T T T C	---	GGCTCCCTATAG[G]GATTCAGGACCCATAACTCTTGTTCTCACTATCTGCTATGCTGCTG
				CAAGAGTTATG	ACAACATGTGAAAGAAGATATGTTGTCTTTACTCACAGTGGAGGCATTTTCTAGCTGTGTT[G/A]
				GGTCTGAATC	TTTGGCTCCCTATAGATTGAGGACCCATAACTCTTGTTCTCACTATCTGCTATGCTGCTG
EST51717					GATCCAATCTCAGTGTCTAACTCATCATCCAGATTATTCTGAAGTGGAAACCACCCCTCCGACCCAA
b	128	C T G T G A G C T G T T	G C G G A A G A C A	T T G A G G C A A T A	TGGCAACATCACCCACTACCTGTTTCTGGGAGAGGCGGGAAGACAGTGAGCTGTT[C/T]GAG
				ATCCAGCTC	CTGGATTATGGCTCAAA
EST51717					GATCCAATCTCAGTGTCTAACTCATCATCCAGATTATT[C/T]TGAAGTGGAAACCACCCCTCCGACCC
a	39	C T		---	CAATGGCAACATCACCCACTACCTGTTTCTGGGAGAGGCGGGAAGACAGTGAGCTGTTCCGAG
					CTGGATTATGGCTCAAA
					TTTCCAGGTTGACAGGTTTATTCCACCCCTTCCATCCCATGGCCACCCAGGAGGAGGAGACAG
EST53012	97	C T G G G C C	T G G T C A C T T T G	G G C T C T G C C C A	GTGTGCTGGAGTCTGTCTACTTTGGGGC[C/T]GGCGTGGGAGAGCCCACTGGGTTTACATTCTCTGT
				GGC	GGGCAGGTGTGGACAC
					AACTGCAATAACAAAAACAAAGAGTCCAAGAGGCTAAAGTCTAAGCTATAATTACACATG
EST53349	96	A G T A C	A G T C A C A A T G	C A T C T G G A T A T	AAGTATATGTTGAAAGCAGTCAACATGTAC[G/AAAAATGTGACAAAGATATCCAGATGTTTAA
				TT	TTTCCGAAATGTCTCCATGACTTGACAGACTGAGAGCCAGCCAGCCAGGAGACCTGCAGAACT
					TAAACAC[G/G]GAGCATTTATTGTTAGAAAGGGCAAGTCTTACACTCAAAATAGGTTTTAACATGAAC
EST53389	74	A G C A	A G A A C T T A A A	C A A T A A A T G C T	ACATTAAAGGGGAGATGGCC
				C	

[illegible]

[illegible]

TGR- A003P30	117	C G	---	---	ACAAATTCAAAGGAGAACTTCCTTTGTTTTAATGCAGCTGTCTCAGAAGCCCTGTGATTTCTCTAGGA AACCATCTGGGTTTAGCCCATTAGAAAAATGCAGTTTAAAGCAGTGTCA[C/G]ACTGGCTGCCTGAA GGTACCCCTGGAGATACT
TGR- A004S34	156	C T A	CCAAACCTCCT CATTCCTATAA	TGTAACACAGCT AACTGTTTTTG TTAAA	GCTTGCTTTTATGTTAGGTTGGGGGAAAGGAGGCTGACAAACCGCAGACATCTGGACACACAGC AAGGGTCCAGGGGAGGTTGCAGAACCTTTTGCTTGGCTAACAGTCTGTGACATAAGCCCA AACCTCCTCATTCCTATAAA[C/T]CTTTAACAAAAACAGTTAGCTGTTTACAAAAACAGTTAGCTGTT TACATG
TGR- A004T44b	97	A C	---	---	AACAACAGTGTAACTTTAACAGGGGATGTTAAAGGTAAGAAGTCAGGAAGATAAACCAAAATGAT TGAGTATGATAAAGAAATTTTGATGGCGATT[C/G]AAATAGAAAAACCTATAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TGR- A004T44a	69	G A TGA	GGAAGATAAA CCAAATGAT	GCCATGCAAAA TTCCTTATCA	AACAACAGTGTAACTTTAACAGGGGATGTTAAAGGTAAGAAGTCAGGAAGATAAACCAAAATGAT TGA[G/A]TATGATAAAGAAATTTTGATGGCGATTAAAAATAGAAAAACCTATAATGTAGAAAAAGCA GGTCTGGACTTAGCAAAAGAAACAATATGACTTAGCAAAAGAAACAATATAG
TGR- A004V08	60	T C GGCATCTCTT	CAGGAAAACA	TCCTCCCACA AAGGC	CCTACAATCCTATAATATTGCAAGGTTGGGAAGGATGCAGGAACACAGGCATTCCTTAT[C/G]GCC TTTTGTGGGAAGGATCAATTTGGTGCATGCACCTTAGGGGACAATTTGGGCAGTAGCTGTCAAATTTT AGTAGCTGTCAAATTTCAA
TGR- A004V26	125	A G	---	---	CTAGCTATAAGACCCAGATTTTAATATTCTAGATATAGAAATTCAGAAATTAATCTATTGAATTGA CTGATTACAAAATGTTAACAGCTGGATAAACGGTAAAAATATGCATTATCTTCACATGA[G/G]AAGGT TTCAGTTTATAAATGCTTAAATACTGTATCTATTGCTTAAATACTGTATCTATTGG
TGR- A004V28 a	29	A G CGATCTC	TGTTGTGGGTG	CGGAGGTTGCA GTGAGC	CCAGGCTATAATGTTGGGTGCGATCTC[G/G]GCTCACTGCAACCTCCGCCCTCCAGGTTCAAGCAA TTCTCCTGCCCTCAGCCTCTTGAGTAGCCGGGACTACAGGCACCCGCCACCTAACCTAAATTTTG TATTTTGTAGTAGACATTTGATTTTTTAGTAGACAGG
TGR- A004X20	25	T C GA	AAGTTTTCCCT CTCTCTGTAG	TTTTATAGTTG ACTGTAACATG GAGAC	TAAGTTTTCCCTCTCTCTGTAGGA[C/G]GCTCCATGTTACAGTCAACTATAAACACATGGCTCATGT TCACCTGGGCTTCGCTTCAGAGGAGTTTGATATTTGGAAAGTGGTACCCTTTGTTCTGTGTGCTTTTCA GACCAACCGCTTCTTTCATTTCTTCAAGGCTTCCTTCCAAAGGAGTTAAATCATCATGTGTCCAATC ATCATCATGTCCTT
TGR- A004X30	26	T C CCAC	TTTGAAATCTT AGAGTAGAAC	TTCTTTATGGA AGTGTTTAAAA CTATTTT	TTTTGAAATCTTAGAGTAGAACCCAC[C/G]ACTCTAGTAATACTTGTAAATAAAATTAATAATGTTTT AAACACTTCCATAAAGAAATAGGGTGCCAGCTCCTTGATTTCCCTCTAGGGATAAAGATATCCAT GTTAGGATAAAGATATCCATGTAC
TGR- A004Z04	102	T G ATGCAAACT	TTCAATTTGGGT	CTTATAATTAG AAATTTTCATGA	CACGGTATATGCCCTATATATAGGTATATATACAGATCGTACACAATATATTTAACAGTTTGACATG GGGTCACAGTACCTTCATTTGGGTATGCAAACT[C/G]TTGCTTTCATGAAATTTCTAATTATAAGG ACTGTTGCTTCTTCATATTCATTTCAATGGACATTAACAAAAATACAGTCTCTTTAGTGATTTAAGACGTC TCCTTAGTGATTTAAGACTG

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TIGR- A004Z19	85 C T	GAGAACAACT GCAGCATTTT	AAGATGGTCAT CGGGAAGA	TAAGTGAGAGCAAGTTATTGGAGGAGCTTGACACCCCTCTTCTGCCTAGCTTGAGAGAACAACTGCG AGCATTTTTTCTTTTTC/CTCTCCGATGACCATCTTTGGGCTGGGGCCAGGCCCTGGGTGTC TCCCATATCGCTGCTTTAGTGAGACTGAGGATCTGGTATAAGGAAACAGATC
TIGR- A004Z42c	89 C T	TTGGGGGAGGT T AGGAGACT	CAGGGCTGCCG GTCC	GTCTTAGCAGAGGAGATAACTTTGAGGGACAGCCCCAAGGGCCAGGTAGCCTTCAGGGCGGGCA GGGTTGGGGAGGTAGGAGACTTC/TTGGACCGGAGCCCTGGCTCCAGCTTCATCTGTGTCTCT CATCATCTGTGTCTTC
TIGR- A005D17 c	81 T C	---	---	TATGGAAGTGTAGAAATATGATTTGGACAAAGGGTATGATCTAATAGTAATAGACTGAGAGGG AAACCCAGGAAGGT/CJGTCTAGATTCTTCTTGGCCTCTCTGTGCAGGATTCCTTCTTGGGCAC GGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAACAC
TIGR- A005D17 b	79 G C	GGGAAACCC AGCAAG	GAGAGGCCAA GAAGAATCTAG AC	TATGGAAGTGTAGAAATATGATTTGGACAAAGGGTATGATCTAATAGTAATAGACTGAGAGGG AAACCCAGCAAG/CJGTCTAGATTCTTCTTGGCCTCTCTGTGCAGGATTCCTTCTTGGGCAC GGGTGGGACCCCTCTCTGGAATGGGTATCTTACGACAGTCAAACTCTTACGACAGTCAAAACAC
TIGR- A005D44	97 G T	TTAACATTAT GAACCTTAAA CTGTACAC	TTGTCTATTAT TTAAGCCCAAC AAAA	CATCAGTAACATATACACAAATGGTCATCAACTGAACCTTGGCTCCCAATATATTTCTATACAATACTT AACATTATTGAACCTTAACTGTACACTG/TTTGTGGCTTTAAATAATAGACAATGATTTTTTG TCTATTACTTAGTGATAGACAAAGTATTACTTTGTAGACAAAGTATTACTTTGTAC
TIGR- A005E31b	27 G A	---	---	GGAGTTCAAATTTATAACAGGCCTCTG/AJCTACAGCTGTACTGGCTAGGCAAGCTTTCCAGAC ACAAAGCCACTGCCCTGCCATGTGGATAGTACTCTTTGGCTGCTTGGCCCTACAAAGCCACTTCTAT TTCATACCAATACCTTCTATTTCATACCAATAAG
TIGR- A005E39	182 G C	---	---	CTCAGTGTAACAACTTTGTTAGGGAAAAAATAATCCAAATGGATATATGGGAAGAGAGTG CCAGGCTGGATGGTGTGCTGAGACAGAAATGACCCCTTGGGCTCCTTTATTTGTTCTTTTCAACAGGACC CCACAGATATTGGGGTATGTCATGAGGACTGGGGATGCTTCTATTG/CJGGATGCTTCTATTTT
TIGR- A005E42a	42 A G	AGTAAGGTTA CTGCACCTTAC AGAG	CCTAAATCAGG GGAAATTGAG	GCTGAGTTTGTATCTTAGTAAGGTTACTGCACCTTACAGAG/AJCTCAATTTCCCTGATTTAGGA AGGCGATGCTAATGGGTATTGCATAGGTGAAGTATAAAATGTTGTATTTAAGAGAAATCCCAACAG CTTGGTATAAGGCAGAAAAATAATGGTATAAGGCAGAAAAATAATAG
TIGR- A005E46	76 A G	CACCTGACTCG GTGCTTTAC GTGCTTTAC	COCTGGCTGTG AGGTAATGT	ATGACAAATGATAGTATTAGCCTACCGTTTGTAAAGCACCTACTGGGTATCAGGCACCTGACTCGG TGCTTTAC/AJGTACATTTACCTCACAGCCAGGGTTGGCAAAATGGTCAATTTTGACAAATGGTCAATTTG ACAC
U20979	24 C T A	GCAGGGGTGA CGTATGTAGA	GGGGAGGACAC CCTAAGC	AGAGCAGGGGTGACGTATGTAGAA/CJTTGCTTAGGGTGTCTCCCAACAGAGCAGATACTTGAACCG ACTCAATTCCTGTGTAAAGAGACACTTTGTCTGCTTACAGGACCTCCCCAAAGTGTGCAGAGTTCTAT ATAGGATGCTGGATTAGTCTCTTGATATTGTAAAAATTCOCCCAAGAGCGCATATGAATCTGCC

X57830	106	G C C T	AGTGGAAACCA ACGATCATAT	CATTGACAGAA TAAATGAGGC A	GTGGCAACTGTGGAAAGGCACACTGAGCAAGTTTTTACCTATCTGGAAAAAATAATATGAGATTGGA AAAAATTAGACAAAGTCTAGTGGAAACCAACGATCATATCTG/CJATATGCCTCATTTTATTTCTGTCAAT GAAAAGCGGGTTCAATGCTACAAAATGTGTCTTGGAAATGTTCTGACAGCATTTTCAGCTGTGAG CTTTC
X74070b	72	T G T G	CTTTTAAAGAA ATTTTGTTTA TGGATC	GGGCTTAAAAA TATTAGAGATC TAGATTT	AACCTGAAGAAGTTACTGGAGCTGCTATTTTATATTATGACTGCTTTTTAAGAAATTTTTGTTTATG GATC/GJGATAAAAATCTAGATCTCTAATATTTTAAAGCCAAAGCCCTTGGACACTGCGAGCTCTTTT CAGTTTTTGCCTTATACAAATTCATTTCTTGCAGCTAATTAAGCCGAAGAGCCTGGGAATCAAGTTT GAA
Z48804	44	C T ---	---	---	ACTGCCGAAGTGTAGCGGGCCCCAAACCTTGCTCTCATCACCAG/CJTTAGAGCTTCTTCCCGAAGGG CCTTAGGATAGGAGAAAGGTTTCATGCACACACGTTGAGAAATGGAAGAGCCCTCCAGACCACCT CTACAGCTGCTAGCCTTAGTGGCACTAGGAAGTTTTCTGAGGCTGGCTGTAAAGTAAGTGTAAAG TCCA
D28513b	133	A G ---	---	---	ATGACCAAAGCCACCACATTTAGAACTTTGGCTGCCTTTGGAAGTCCAGAGCTGGATCTCTCAGCTCC CGCCCCAGAGGGTCAGCACITTTGGACATGGCTCACAAGCAGTTTTTGATTGACTGGCATGAATGCJA/ GJTGCGGTGCAAGCATGAACCTTGTTTAAATCAAGAGGCTTACATAATTTTAAACCAGTTCTGTCTTC AGCTGTACATA
D29833b	85	A G ---	---	---	CCACTCCATCCTGATGCCCCAAGTTATCCACAGCCTCCTTCCCGACCAAGACCCTATCCACCTGGACC TCCATTTTCCCTGTAA/JGJTTCTCCAAGTATCCTACCTCCCTACTCTGACCCCAAAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAGACACCCTACCTTGTAACTACTGCTTCTGCTAC
D29833a	21	A G ---	---	---	CCACTCCATCCTGATGCCCCA/JGJTTATCCACAGCCTCCTTCCCGACCAAGACCCTATCCACCTGG ACCTCCATTTTCCCTGTAAATTTCTCCAAGTATCCTACCTCCCTACTCTGACACCCCAAAATATGAA CAACTGCAGCAGGTGCCACCAACCAACCAAGACACCCTACCTTGTAACTACTGCTTCTGCTAC
D31762	82	G A ---	---	---	CTCCTGCTCCTCCTTCTGCTGCTGATGCTCGTCTCAAACGCCGAACCTGTCTTGCATGGGGG GAGGGGGGTTTC[G/JCTTTCTCTTCTTGGCTTCTTATCTCCACAAACCATTTCTCAATAAA GCCAAAATCTTTCTCTTCTCCCTCCTCAGGCCACCTCCTGTCTCCTCCTGCTGCTGCTGCTTTT CTGGA
D37931	64	T C ---	---	---	ATTATCGGAGGTGTTGACCTTACACTTACTCCTTAAATAGCAGTGAGTAATGCATTTGAGCTG/JGJ CCCAGGCTCTGTCTCCTCAGCTCATTTCTACTCTTTTCTCTATATAACTCATTTCTATAAATACAT GCACCAAAGAGATATGGAGACATAAACCTGTAAATGAGGCTGGGCTTTTCTGTAAATAGCTTCC TTT

D63807	101	C T	---			CAGCAGGACTTCAGTGTGAGTATCCCTGCCCTTCAGTCTTCTTTAGAAATCACATCTGTGTTCAATCC ATTGTTTAGAGGGAGTGATTTTCTGTTCAC/C/TAAGAGGAGCTTTTGTTCACAAATGGATCAC AATGCAGAGGAGTCTGTTCTCCCGCTCGCTTCGCTGGAGGGTGACCTGTCACAGATGAC
D90145	21	T C	---			TGGGAACATGCGTGTGACCTC/C/JACAGCTACCTCTTCTATGAGCTGGTTATTGCCAAACAGCCACA CTGTGGGACTCTTCTTAACCTAAATTTTAAATTTATTTATATACTATTAGTTTATAAATTTATTTTGAT TTCACAGTGTGTTTGTGATTGTTTGTCTGTGAGAGTTCCTCCCTGTCCCTCCACCTTCCCTCACAGTGTG TCTGGTG
EST14035	59	T C	---			ATTATCACTCTCAAAAATTTGGTGTGTGTTTAAAGTACTTTCTTATTTATGAGCCCTT/C/JGAGGA CCAGACATGTTATTATCAAGCCCTTATATACCATCTAAT
EST16668	71	C T	---			GCATTTTAAATTCACATTGAATCATTTTACTATTTATGATGTTTACATAACAATTCAGTATCATTT ATG/C/TJGTAGATTCAGATGAGTGTGCTCAATACIGAGCATTATCT
EST16904	57	C T	---			ACAGACTATCGCCAACCTTATAATGCTTAAACTTTTATGATCAATAGTAATAATTACA/C/TJGAGATA TTCACACCTTATTATAAAATAGGGTTTGTGTAAGATGATTTTCCCAACTGAGGTTAACAT
EST21863	49	A G	---			TTTTAAGTACCAGAGGCACTGTCTGGAACAGGATGAAAACCTGATACACC/C/JG/TTACTACTTACTC TTCACCTCTCAAACTGATTCCTTAAAGACTTCTACTTAGCAAA
EST21885	80	G A	---			GGCTGAAGTAGAATCAAAAGTTAAGAACATTTTATGCACCTTATCCACAAACATTTTACTGAGCATA CTAGGTGCTGGG/C/JTGTGACAGTGAGCAAAAACACAA
EST22623	26	A G	---			ATTTAGTGCAATGACAAAGCCCAA/C/JGAGAACAGAGGATCAAAATAGATTGAAAATGTATTACC TTCTCATAAGTATACGAAGTTTAAACAAAGTATGGAGT
EST22644	98	A G	---			AAAATGATTGAATTCAGCAAGTACATTTATGATCTATCTACATTTGTTAAACAGCACTAAAAATAA AAATTTTAAATGATTATCCATTATTTACAG/C/JAAATGTGGAAGATGGCTTTTAAACCC
EST23587	31	T A	---			CCTCATTTATTTAAAAAGACGGACATAAAAAA/C/JATACAAACAAAAACCCCAAGTCACATTTTCAG GAGGTAAAAACTAAAAAGTCTGATATGAAAATATGGTGG
EST24246	106	T C	---			AAAGATCTGGCATTATTCACATCATCTAAATATTTTGTAAATCTTTTCCATGAGTATTTTTC TGTCGAAGCATTTTAACTATCATTTTAGCGTAAATACC/C/JGAATAACCCATAGTTACAGAAATGG GTCTGTGAACCTCAATT
EST24308	45	A G	---			TAGTTTAAATTTCTGAACCTTTGGCTTATAAATTTTCTCAACTT/C/JCATTTAAAAATGTATCAAT GCACCTTCTTCAGTAGTACCACATGAAAATATAAACCTCGTTC
EST24435	73	G A	---			CTTGAACTTCTGGTCTCAAGTGGTACGTCGCTCAACCTCCCAAAATGATGCGATTACAGGCATAAG CAGCC/C/JATGCTGACCCACATTTCTTTATCCGATCTGTGATGGACATTCAGGTTGTTTC
EST25089	25	T C	---			TATTGTTGCATTATCAAAATGGTTA/C/JAGTTTTCAAATTAACACTGTAATTGATTTCTATGTATAAA ACAGCTTTGAAGTTGTAAATGTAGTTTCCCAATCGTTAGTTAATGCTACATT

EST25476 9	33 G A ---	---	AATGATCTTTATTTTCAGACCTGCTCCTAAAA[G/A]CTTTCTCCTCCTCTAAAAAACCAACACACA AGAGGTCTCTTGTGCTCTTTCCATGGACTGTGGGCTGTGGACTGGACCGTCTGCTGA
EST26183 2	70 T A ---	---	AGATAATGCATTAGAGCCTGCCCTCATTGTATCTTGATTAACCTTTGTAAAGATTGATCTCTAAATAAG ATT/AJACATTCGGGTACGGGAGTTAGAACAAC
EST27231 1a	28 T C ---	---	AGAAAAAAGGTGCTACCGAACTCATGT[C/G]ATAGCGCTTCTTTAGGCACATATTATAGCAATT CAGATGAAAGTTCTGTAAATCACACACACACTGTGCCCTCAACAACAACACGGTGACTCTGA
EST27816 5a	26 T C ---	---	CAACTCAAGGTACAAGACAATTGCATT[C/T]TAACATTGTTATAAATAAAGGAACATCAGATCAAT CATTAAAGGGCTCCAGAGTGAACAGCATCTTCATAACTTCCATGTT
EST28588 0	78 A T ---	---	GTTTAATTGGGTATGGTCCACAGGCTGTACAGAAAGCATGATGGCTTCTGGGGAGGTCTCAGGAA ACTTACAATCA[A/T]GGTAGAAGGCCAAAAGAGAACGAGGCATCTCTCCATGACCACAGCAGGAGG AACAGACAGAGGAGGGGGAT
EST30226 5	25 A C ---	---	TACTCACACCGACATACATATCTCA[A/C]GTAGAATTAGCTATACTGCATACTAACTTAACCTTAAACAAGACAGACTCATTTCCCTTTGA AGGGAATATAAACTACTGAACAAGACAGACTGTGCTAACTTAAACAAGACAGACTCATTTCCCTTTGA G
EST30935 9a	59 C G ---	---	AGCTATGGTAGAGCAAAATTCAGTGGTGGTAAATCAAGAACTCTAAAGTTCAGTAGAGA[C/G]AGGGT GTTTTGAATGTCAAGGAAATCACTGAGGTAGATTTGGGATTACAATAAGACAGCTGCCCTGTGAGGT CATAAGAGCTTTTGTGAGG
EST32515 7	25 G A ---	---	CCGAATATAAGGAAAAAATGGTGGC[G/A]TGCCCTCTAAACCTGTTGAATAGAATAATGGCCAAAT ATTACAGTTTCTCATTCTCTATGAATACTGGCAGCTGTTTATTCATGTTTATATGTGAGTTTCTATGC ATAAAAATCCCAGTAAGA
EST33274 4	27 T C ---	---	TGCTTTGTTCCCTCCAAATCCTAAAA[T/C]GTGTGCTCTCAAAGAAATTCGTGGAAGGACTTTGAA TACGAGTTGTACCATAATTCAGTATCTTGAATACAGGTTTCAGATACTATGGAGATGATACCAATT GGACTAGGTA
EST33352 7b	75 C G ---	---	TACACATTATTCAGAGACCACCTGACATGCTCCTCCGCAGATACATTCGTCTCTCTTAGAGA AGTTTAA[C/G]GCACATAGTATTATTTTACTAAGAGAAATATCTCTTGGTGTCATATCTAGGGG
EST33424 1	126 A C ---	---	ATTTTCCCACAGCAGAAGTATATTTATGTGCTGAAATCAGGTAGCAGGGAATGAATAGCTCTTGG GAACCAAGTACAGAATGTTCAAAAAGATTTACAAATCTCAGTCAATTACACACTGAGCAAC[A/C]AAA CAAAGGTGTTGAATCCTCTT
EST33488 7	90 A G ---	---	CCTTTGGGGGAGTTTTAAGCCAGAATGTACAAAAGTCACTTACAGGAAGACTGGAAATGTAGCCATAG TTGAACTCTAACATCGTCTATAG[A/G]ACCATTTCCCGTCTCCAGTTAGGTTCTAGGCATACTAAGCT GCTC
EST33508 1b	45 C T ---	---	AAAAACATGCTATTTGAACAAACTTTTTTATAAAGAATAAGTTG[A/C]TTGAAAAGCAGTTTTTAAAT AACATCAACTCACAATGACTTTTGAAGCCAAATAA

EST33508 1a	36 A G ---	---	AAAAACATGCTATTTGAACAAAACCTTTTATATAAGAA[G/G]TAAGTTGACTGAAAAGCAGTTTTAAAT AACATCAACTCACAATGACTTTTAGAAGCCAAATAA
EST33863 4	77 C T ---	---	ACAACATAGGACTGGTTATCTTGGTTTTGAAAAATTATGTTGCCACCTTCTTATTGTTTTAAAAATGA TCATTTAAC[C/T]CTTTGAACACTACAGCCTGAATCCCCC
EST34739 3	97 T A ---	---	GAAATATCCTTCCCAGTGGCAGGAACCTGAAGACTCCAGATCAACAGGTGGACCTTTTCGTTGATGA GCTGATAGCTTCTAGGCTGTGGGAACCTC[T/A]GGTGCCCTACAACTCCAACACTACTGCAGAAATTTCT TGTTTGCCCTCATAAACA
EST34792 6b	104 A G ---	---	ACCTGACTGCTTTAAAGCTCTTTGTAAGCTGACCGTAGCAGATCACTGGCATCCACTATCAATA CTCATAAGTCTAATTTATCCTCAGGATGTTCCCTGA[A/G]GTATTCAGGAATCTTAGTCCTATTACA AAGATTTTGTTGCTGTG
EST34835 9b	93 T G ---	---	GGAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGGAGTCTATGTTGTGCTTTCIGG[T/G]GGCCCTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST34835 9a	82 G A ---	---	GGAAATGTTCCCTTTGCAACAAGGTACGTTTATTCTGCAACTTAGGAGATAAAATGAGATTTCTG TGGGGAGTCTATGTT[G/A]TGCTTTCTGGTGGCCCTAAAGAAACAGACAAAATTTGTGCTAAAGAT
EST35230 0	93 G T ---	---	CACAAAGTGCTCCTTACTTACATGAAGGAACATAAAGGCATGAGAAACAGTCACTCTCAATAAATG CAAGACATGAGCATAAAGAGGTTCTC[G/T]GCCCTTCCAGCGTTGTTATTACAGAGAGAAACCT
EST35337 9	33 C T ---	---	TCCTTTCAAAATTTTGTATGATGAGCATTTAATG[C/T]ATAAAATTTCTGCTTAGGAATGTATCTGCT ATATCTCAGAAGTTTGGGCATGTTGTTTCCATTTTACTTAGTTCAGAACCTTTTCAATTTTCATCT
EST35708 9	32 C T ---	---	CTGCCCCAAATTAACCTTTAGGCAATGGAA[C/T]AGACTTACTGTATGGGACATTTTAAAAAG ACAGCTTAGTAATATGTTTCATATGCAGCGTGTGCTTCCCTCTCTGAGGTTGGCACCTTTCCTGTTGTG ATGTCAAAAGTGTGGCT
EST35747 9	51 C G ---	---	ATCCAGTGCAGAGTTGTAGCTGGAGACATATTTCAACCCACAAGGCTCCA[C/G]ATGTTTAAACGT TTCCCAACATCAACCTAATACAGTGACAGCAACACCTCCCTCCTGCCCCCTCCAGTAGGGTTGAGATT G
EST35751 9	89 C A ---	---	TGGTCCATTATATTAACCTGAGGGAACAACGGTGGCTGACATGGCAGACATTTATTTCAATGGAGA AGTTCCCTCCCATGAAACCAAGA[C/A]CTTGTCTCATGATAAAGTGGAGACAATAAGAAAGCCAGGT ATATAATTAAGGCCTGTGA
EST36301 4	93 C T ---	---	CACCTGTTTCATTGGTTCACTGGGCTGCTATCTGTGGGCTGATGCTCTACCAAGTGCAGCCTACAGC AGTCAGGAGGCAGCCATGGCCCCCTG[C/T]GCTGATGGAGCTTGTAAATTTAGCCCCAAACTGATCTTCA GAAAGAGGTACAACAAA
EST36519 0a	33 G T ---	---	GCCATCAGCCCCACAAGACATGACTACCAACGC[G/T]GGCCCCCTTGACCCCATCTGGCCTCAGCAC CTAAGACTGGACAACCTTTGTACCTAATGACCGCCCCACCTGGCATATACTGGCTGGCCTCTTCTCTGT CACAGGGTCTTAGTCGT

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EST36620 6	50 G A ---	---	GAC TTATTAGATAAGGGTTTCGGCTACCCCTCAAAGCTCTCAGGACTGG[G/A]GCTAGGGTTTAAGG AAGGCTTATTTAAATATGGGAAATAAAATACAAAAGGGCCACACCCGATGCAAAAAGACTTT
EST36690 0a	89 C G ---	---	CCGTGATGTGCATGGGTGCGCTGAGCAGTCGTACTACTATGCGTCAGACAGCTCACGTATGTCAGGA AAGGAAGTC TGGGATTCTCTA[C/G]AGGGGACATATCACACATATTTCTAAGTCACCTGTGTGACTCGG CTTGAGCAAGTCATTCA
EST36729 9	62 C T ---	---	GAGACAGAAGCCATCAGTTAAATGAGGTTAGGCTCTCCTCCTAATATACTGATTGACAATG[C/T]A TATTAGCCAGGTAATGCACCTTAGCTACCTGGACAATGCTATCAAGTGTGCTGGGAAGGGAG
EST36823 6	103 A T ---	---	ACTGTCGGCCGATGATTGGAGCTTGAAAAAAATACCATGCCAGATCTCCACCCAGACCAATTAG GTCAGTATCTCTGGGGTGCTATTCAAGCAACAAT[AT/TT]CTTTTATGTTCCCTAAGCTCATCATGAG TTAA
EST36987 4	126 C G ---	---	ATGATCGCTTATGTAATTTGAGGGGACATGGGTAATGGGAGATACCCACAGGACCTGTAATATT TAAATAATATTTAACAGCTGATCAGAGGCTAAATTACAACCTGACATTTTGATGCAGTTT[C/G]GTTA GGGAATTAAGACAATGCAG
EST37054 3	88 T C ---	---	GGTCTCACTCTCTTGCCAGGACGGTTTGAAACTCCTGAGCTCAAGTGACCCCTCCACCTTGGCTTCC GAAAGTGCTAGGATTACAGG[T/C]GTGAGCCACACACCTGGTCC TTGTTTAAAGTAACCACTGAA C
EST37269 3b	105 T G ---	---	AATAGTCTATGGCTACGGGCGCGTGGGATGTTAAAAATTGGGATTTTAAATTAAGATTGTGAACATG CAAAACCCAGCAATTTCTCAGCTTATATTTGAAAGTCT[T/G]CAGGAGAAAAAATGGGGTCC
EST37284 2	93 G T ---	---	AAAAGACCTTCTCAAGCAGTAACTTTGAGCAGAGACTCAGATGAAGTAAGGGATGAACCCAGGAA GCTCTCTGGATAATGTCACCTCTAGGAA[G/T]AGTAAACAGGTGTTAAAAACCTGAGATAGCAACCCCT CTTGGCTTGCTTGAGGAATA
EST37315 2a	90 A G ---	---	AGATGGGGTCTTGCTAGCTTGCTCGGGCTGAACATAAGATATCCTCTCCTCAGCCTCCACAGTAGT TGGAACCTATAGTAGGAGTATCT[AT/G]CCCTGCCCTGCTAGAAC TTCAAGTTTGTATGGCAAAATCCA CCCCAGAGGACAGGACAA
EST37374 1	45 C T ---	---	CCTGCCATGATAATGTTAAACATATCAAGATCCTCCTCAAACCTT[C/T]AAGGGTGAAAAAGCATACC ATTCCATTTAGTTGAAATATTCCTTCACATAGCCCAACACATTTTTTCAAGGCACTCTAGCTACTACA GGA
EST37376 8b	101 G C ---	---	GTGACATCATGTCCTTCAATGCCCTTTCAATTAATAGTAGTGTAGCGCTGGGGGCTGAAGTCAGACT CTCTGGGTTCAAATCACAGTGTGTGCTCCTGCA[G/C]GCTGTCTCCTCAGGCAAGTTGCTGACTTCTCTG TGCCAGG
EST37376 8a	41 T C ---	---	GTGACATCATGTCCTTCAATGCCCTTTCAATTAATAGTAGT[AT/CT]GAGCGCTGGGGGCTGAAGTCAG ACTCTCTGGGTTCAAATCACAGTGTGTGCTCCTGAGGCTGTCTCCTCAGGCAAGTTGCTGACTTCTCTGT GTCAGG

EST37378 9	63 T G ---			ACACACAAAAAATGGTGGCAGAAAAATCTGGAAGATTCTAATAACCTCAATTCGTGAAAAAC(T/G JAACATGCCTCAAAAAAGAGGGGAAAAAACCTTTAACAGAAACACTGTGCTGACATGATTAGCTT
EST37452 4	46 G A ---			AAGACATAAATCTGCAATGAATCAGTTATGAAATATTAAACCTCT(G/A)CTTCTCAGGAGTGACAC TAATCATGGTCTGGAAGCTAGCCTATCGCATTTTAAACACCCCTTAAATCAATGACGTAGAA
EST37613 6	34 A G ---			CTAGGCATGGGGCTTTTACAGTCAATTTATTTACC(A/G)GTCATGAATTCATTAAAAACACAGCGAT ATAGCAATGAGCAAAACAGACCCTCCCCAAATACCCCTGGTTCATGGATCTTCCATTCTAA
EST38025 4	56 T G ---			TTATTGAGTAGCTACACTGTGGCCAGAACTAAGCTTTACATGTTTTATATACCTTAT(G/T)TATCTCA ACAATCTTGAAGGGTGGTATTATTTCCCGCTTATAGGTGAAGACTCTGAGGTTTCAGAA
EST38068 6	57 C T ---			TCTACCAGGTCAACCAAGTATCTGTATATGCTTTAAGTGGCATTTTCATGTCACTT(A/C)TCGCATGG AAGAACGCTCTCCTTTTAAATCCCTAACTCTCTTCTTCTGGGAAGACAGAACGTGCACAA
EST38420 6a	100 T C ---			TAAATCAAGGGCTCTTTTCATTACCAAAACAAAAACAAAAAAGGGAACAAATACGATGGAGAGG GAAGAGATGATGCCGAAGTGTCTATCCTGACTGAC(T/G)CTCCCTGCAGTGCCCATGGGTCCCGTGCCT TATTCATTCTCCTCTCTCA
EST38950 5	25 T C ---			TTTATTTGCAAAAGTAAGCAGCCGG(T/C)TGGTCCCTGGATTGAGGCTGAGGAAGACATTACTTCCCTG CTGGAATACTTGGACTTACATTTGACACAGGCTAAAAAGTATGGGATGAGAGAGGAACAAAAAGCTT ACAAACAAAGAGCAGCCA
EST39053 6	90 T C ---			TTTTTGTACTCTGTAGCCAGTCATTAACTGAAGGTTTAAATATATCATTTTATTGGGATGAGATCA TAGTCTTTACACAAATGCTATG(T/C)AAACAAAGTTACTGAATATTTTACCTCTGGAGTTG
EST39331 1	70 G C ---			TCCTTCTGCTCTCTAGCACTCAGACCACCAAGAAAGCCCTGGAAGACCAGCCATGGAAGGAAAGTA TGC(G/C)GTGTTTTAGGGAGAGCTGGCACCTGGCCTCTAATCTTCCCTCTGCCATTGACCAGATGGGT GCCTTTGGATACATCACT
EST40544 7	31 C A ---			GTCAACCATTGACCTTACATAGTGCCCTCTAG(T/C)A)ACCTATGAGGCACCTAGAACTCTATTGTACTTCT CACTTTATCACATTAGCTATCGAAGTTTGAAATTT
EST40548 4	37 T C ---			TTCTAATAGCATGCCCTGTGACAGGGAAACTAAGCTC(T/C)TCAAAATAACTGAAACTAAATCTGTA AGATAAAATGCTGGAATTTGAGAAGGCACATGCCCTTTGTAGTTTTTCTCCAGAAGGCTCAAGGTGTTCT AATAATCTGTGGGACTCA
EST40549 1	42 A G ---			TGTTTCTCTAGAGAACCCTGTGTGATACACTACGCATGCACA(A/G)ATAAAGTCACATCAAGACTAA TAATCTAAATGTTAGTTTGTACCACCATTTCTACATTTGAACCTAGCTCCCTGCAAAGCACCTTCTA CCCTGCACCTTTGGGGAG
EST40579 1	81 A C ---			TGTGAATTACACATCAGTAAGGCAGTTTACAGAATTTTCACTCTTACCTTAAAGTCTGTGCTATCTG AGCTGGTGGAAA(A/C)GGACTTGGAGACAGCGATTAAATACGGAACAAGGTCTTCCAGGAAG
EST40584 3	68 A G ---			TTGTATGGTTGTAGGAATTTGGGAAGAAATTTATCTGTGAAGGAAATTTGCCACTGTAAATGCACACCC A(A/G)TCTGTACTCCCAATATCCTATGTTTAAAGCT

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EST51340	51 G A ---	---		GATCAAACTGTATTGCCCAGGCCAGCTCCTGAAGAACTGTGAACATATGAAC[G/A]TCTCAGCCTAGA AGGATAATGTGACCTTCAATTTGCACACCATCCATTGCTCTTTCAAACCTAAGAGCCTCTCTAAGCTA GATAGGCCCAAGGATTATT
J04162	134 T C ---	---		CATGGGAGTAATAAGAGCAGTGGCAGCAGCATCTCTGAACATTTCTCTGGATTTCGAACCCCATCAT CCTCAGGCCCTCTCTACAAGCAGCAGGAAACATAGAACTCAGAGCCAGATCCTTTATCCAACTCTCGA T/CJTITTCCTTGGTCTCCAGTGGAAAGGGAAAGCCCATGATCTTCAAGCAGGGAAGCCCCAGTGAGT AGCTG
K01506	63 T C ---	---		CTGAATCCAGCTGCCCTACAACTCCAATCTCAGCTTTTCTCAGCTTCATGTGAAAACCTAC[T/C]C CAGTGGCTGACTGAATTGCTGACCTTCAAGCTCTGCTTATCCATTACCTCAAAGCAGTCATTCCT TAGTAAAGTTTCCAACAAATAGAAATTAATGACACTTTGGTAGCACTAATATGGAGATTATCCTTTC ATTGAGCCTTTTATCCT
L18877	69 T C ---	---		TGAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGAGGGAGTCTGGCCAGTGCACCTTCCAAGGCC CT/CJATCCATTAGTTCCACTGCCTCGTGTGACATGAGGCCCATCTTCACTCTTTGAAGAGAGCAG TCAGTATTGTTAGTAGTGAGTTCTGTTCTATTGGATGACTTTGAGATTATCTTTGTTTCTGTTGGA ATTGTTCAAATGTT
L31848	36 T C ---	---		GCATTTTACATATCCCAAGCCCTTTAGGGCTACAGT/CJCTCTTGTCTGGACCTGTAGGGTGCCA TTTGGAGTTACAGCCTAGAAAGAAAGGCTTTGGCCCTGGTGTGGCATAGGCCTGTAATCGT AGCGCTTTGAGAGGCTGAGGCAGGAAGATAGCTTGAGCTCAGGAAGTTCGAGACAAACCTGGGCAAT GT
L38517	137 G C ---	---		GGGTCCAGAAGCCTCTCAGCCAGGAGGAGCTGGCCCTGGAAGGGACCTGAGCTGGGGGACACTGGC TCCTGCCATCTCCTCTGCCATGAAGATACACCAATTGAGACTTGACTGGGCAACACCGCGTCCCCAC CC[G/C]CGTCGTGGTGTAGTCATAGAGCTGCAAGCTGAGCTGGCGAGGGGATGGTTGTTGACCCCTCT CTCCTAGAGACCTTGAG
L39059	123 T G ---	---		ACTTGAGAAGCAGAGCTGCCACCTTCTGGAGGCCACTGTGATGATGAGCCAAAGCAATTTGGAGCCA AGTTGAAGGGACAGGGCAACAAAATACAGTAGTAGTTCTTTTGTATTTGTATATTTG/CJCGCCTGA AGATCATCCCGCAAGGCAGGCTGGAGGTGCCGGTGGGCTGTGTTGCTGGGATTTTAGTCTGTGCTGG GAG
L41268d	173 G A ---	---		CAAAGTTGTCTCCTGCCCATGAGCACACAGTCAGGCCCTTGAAGGGATCTTCTAGGGAGACAACAGC CCTGTCTCAAAACTGGTGGTCCAGCTCCAAATGTACCAGCAGCTGGAATCTGAAGCGTGAGTCTGCAT CTTAGGGCATCGCTTCTCTCACACCACAAATCTGAAC[G/A]TGCCTCTCCCTTGCCTTACAAATGTCT AAGGT

L48728b	111 T C ---	---	---	AAAGTGAACAGAAAGCAAGATGGATTGTTCCCTATAAAAGCACATAGTTATGTTACTGGTATCGT AAGAACTGGAAAGAGCTCAAGTTTTTGGTTACTTTTCAGAAATTC/CJGAAGAACTTATTCAGAAAG CAGAAATAATCAATGAGCGATTTTAGCCCAATGCTCCAAAACATCATCTGTACCTTGGAGATCCA GTC
M18079	52 G A ---	---	---	GGCACAGTCCAAAATACAAATGGACAGAAAGATCTATATTGTACCAGAACT[G/A]TTTATTTACACC CCATCAAGTATAAGGTTACTGATTGATTGTCCTTTTATAAACATTTGGTATATTTCCATTTCATGCCAA AGCAAAAGAAATAAAAGCTAA
M19169	113 T C ---	---	---	TAGGGATCTGTGCCAGGCCATTGGCACAGCCACCACTCCACCCCTGTAGTGTCTCCACCC TGGACTGGTGGCCCCCACCCTCGGGGAGGCCCTCCCATGTGCTGTC/CJGCCAAGAGACAGACAGAG AAGGCTGCAGGAGTCTTTGTTGCTCAGCAGGGGGCTCGGCCCTCCCTCTCCCTTCGCTTCTAATA GC
M21539	114 T G ---	---	---	TCACCTCGTTCACAGCTCCACCTGCATCTTCTCATCAAGCCATCCAGGGATACACAGGGAGCTTCT TTCCCTTAGCCTGTGATCTGCCCATGATGATCCCCGACAGCAAAAT/GJGTTTTCTTTCTGAGGCTG CCATGCTGCCACTGTCCAGGTGGAGACTGAGCAAGGAAGTCCCTCAGCTGTACCGGCCCTTTCAGAGCT TCTCTTTGGGTGC
M26041c	173 A G ---	---	---	CTTAGCATTAATTTCTGGCCCCCATTTATCATATCCCTTTTCTCCTCCAAATGTTTCTCTCCTCTCT TCTGTGGGACTTAAATGCTATATCTGCTCAGAGCTCACAATGCCCTTTGAATTAATTTCCCTGACTTC CTGATTTTTTCTTTCTCAAGTGTACCTACTAAG[G/G]GATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M26041b	157 A G ---	---	---	CTTAGCATTAATTTCTGGCCCCCATTTATCATATCCCTTTTCTCCTCCAAATGTTTCTCTCCTCCTCT TCTGTGGGACTTAAATGCTATATCTGCTCAGAGCTCACAATGCCCTTTGAATTAATTTCCCTGACTTC CTGATTTTTTCTTTCTCA[G/G]GTTACCTACTAAGAGATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M26041a	45 C G ---	---	---	CTTAGCATTAATTTCTGGCCCCCATTTATCATATCCCTTTTCTCCTCCAAATGTTTCTCTCCTCCTCACC TCTCTGTGGGACTTAAATGCTATATCTGCTCAGAGCTCACAATGCCCTTTGAATTAATTTCCCTGACTTC TTCCTGATTTTTTCTTTCTCAAGTGTACCTACTAAGAGATGCCTGGAGTAAGCCACCCAGCTACC TAATTCCTCAGTAA
M63967	57 G C ---	---	---	TAAGGAGCTGTGAGGGAGGCCAGTCCAGTCCAGCAATCCACAACCTTGAC[G/C]AATGCT TGCCAAAGCTGTTTTAAAGCCCAAGAACACCCCTTTCTTTGTTCCAAATTAACCTTTAGAAGAAACCCCA CAATAAAGCAATCAATC
M81695	34 G A ---	---	---	ACTTACTTACCCTACCTGTGAGGCTGACGGGA[G/A]GAACCACTGCACCACCGAGAGAGGCTGGG ATGGGCTGCTCTGCTTTGGGAGAAACGCTTGTCTGGGAGGGGCTTTGCTTTGTCAAGGTTT CAACTGGAAACCCCTTAGGACAGGGTCCCTGCTGTGTTCCCCAAAGGACTTGACTTGCAATTTCTACC T

U06641d	166 C T ---	---	CTCCTCCTTTATTTAGCATGGAGGGTTTAAATGGAGGATCTCCTTTTCTGTGACAAAACATCTTTC ACAACTTACCTTGTAAAGACAATTTAAAAAGATCTTTTCACAACTTACCTTGTAAAGACAAAAT TATTTCCAGGCTATTTAAATACGTACTTTAG[C/T]JGGAAATTATCTATGTCAATGATTTTTAAGCTA TGAAATACAAATGGGGGA
U09607	39 T C ---	---	GAGGCTTATGAGGTCCTTACTTCAGGAACACCCCAT/C/GACATTGCATTTGGGGGGCTCCCG TGGCCTGTAGAAATAGCCTGTGGCCTTGCAATTTGTTAAGGTTCAAGACAGATGGGCATATGTGTGAG TGGGGCTCTCTGAGTCTGGCCCCAAAGAAAGCAAGGAACCAAAATTAAGACTCTCGCATCTTCCCCAAC CCCTTA
U09608	82 T C ---	---	GAGCAGAAGGCAAGAGCGGCAAGATGAGTTTGAGCGTTGTTTCCAAAGGCCTCATCTGGAGCCTC GGGAAAGTCTGGTCC[C/J]ACATCTGCCCGCCCTTCCAGCCCTTCCCAGCCCCCTCCTCTTGTTCCTTC ATTCATTCAACAAAATTTGGC
U10694	20 C G ---	---	GTGACATGAGGCCCATTTCTT[C/G]GCTCTGTGTTGAAGAGAGCAATCAGTGTCTCAGTGGCAGTGG GTGGAAGTGAGCACACTGTATGTCATCTCTGGTTCCCTTGTCTATTTGGGTGATTTGGAGATTTATCCTT GCTCCCTTTTGGAAATGTTCAAAATGTTCTTTTAATGGTCAGTTTAATGAACCTCACCATCGAAGTTAA TGAATGACAGTA
U13877b	162 T C ---	---	AAAAAGGACTCTGGTTCAAAATCCAGGTTCCATTTTGTCTATCTTTGTGACCTTTCACAAAGTTGTTTAAAC CTCTTTGTTTCAGAAAATTTCTCCATGGAGTAACAATATCTAGTTGGGAGGATTAGTGAAAGTTACATGT AAAGCACAGAGGAACAGCAAGAGAT[C/J]TACCGTGGTCTTACTAAAGTACATATCCTAACTTGG GGTTACCTTCAGCA
U15555	187 T C ---	---	TTTCTGTCCACTTTCACCTGGTTTTTAATAGCCAGCCAGTCATAATAGTAGAGGAATCAGTCAAGCAA AAATGCTTTTGGAAAGATTAAATAAGCAATGCTGAACATCAGGAATTTAGATATCCGTACAGAGAGT TCCAGTAAATTTTATGAGTCCACGACCCCTTTTCTAAGCAGTCTGGTCCATG[C/J]TGGTCTCATAC CTCATATGCAGGATTCAATCA
U17077	122 T C ---	---	TCCAATTATTGGTCCCCAAAGCAGCTTCCAACGTTTGCCATCTGGATGACAAAACGGAAGATCCACT AAAACGTCCACGGGATTAAACAGAACGTCCTTGACAGCTGAGCGATGACACCACAC[C/J]TGTGTTGG ACATTTAAATTCACCTCTGCTGAATAGGAGGAAGCTTTTCTTTTCTGGGAAAACAACACTGTCTCTTGG AATTA
U18543	58 T C ---	---	GCACATGCAGAAATAGACTCAGCCTATGTCTCTGATTCAGCTGGGTAGTTCTAGAACTTT[C/J]AGAAG CTCCATCTTTTAAATGTTTTTATTTGTTATGTCCCCCTCCCGGCTTCCACCTAAATTTAGAGCTTTAAA AGATGCACTGCCCAAATAGGACACACGATGGTGTAGCTGAAGTTTGATTAGCAATTAGGCACCTTCC AAGGCTTTAGTAGAGAGGCC

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U25975b	164	C A	---	---	TCAC TGTG TGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCCTTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAAGAAGCAATGACTATTCTCTG AAGACAACCAAGAGAAAATTGCAAAAAGA[C/A]AAGTATGACTTTTATATGAACCCCTCTTTAGG GTCAGAGAAGGAATTGTGGACTGA
U25975a	143	C G	---	---	TCAC TGTG TGGCCTCATACTCTTTTCCATTTTCTACAAGAAGCCCTTTAGTATATGAAAATTATT ACTCTTTTGGGGTTTAAAGAAATGGTCTGCATAACCTGAATGAAGAAGCAATGACTATTCTCTG AAGACAAC[C/G]AAGAGAAAATTGCAAAAAGACAAATGACTTTTATATGAACCCCTCTTTAGG GTCAGAGAAGGAATTGTGGACTGA
U25997	61	A G	---	---	CAGGGAGAGGTTATTCAACAACCTCACCAAACTAGTATCATTTTAGGGGTGTTGACACACCA[AVG]TT TTGAGTGACTGTGCGCTGGTTTGGTTTAAAGTAGTTCTATTTTCTATCCCTTAAAGAAAATT GCATGAACTAGGCTTCTGTAATCAATATCCCAACATTCTGCAATGGCAGCATTCACCAACAAAA TOC
U28413	29	C T	---	---	ATTCTGACAGCTAAATTAGCCCTAAATG[C/T]GGGTAATATTTTCTCATGTTTAAATGAGGTT AATATTTGCATAAAATCCTAAACAGACTTCTGTATAGTTTATTTAGTCAAAATGTGTTCCCTTGATCC CAGATGTTGTGGCCTGGGAAAGCCCTCATTGCTACAGTACAAGTAACACAAGTCGTTGTACCTCAGTT G
U30884c	89	A G	---	---	TAGGGTAGCATTTAAGATTGAGGAGTCATTAGCAGTGATGATTTGGGACCTGCCGTATAATCTGTT CTTCTATCCCACGTTAGCCA[AVG]TTGTTCTTGATGAATCTATAGTGCATAGAACACAAAATCTAT TGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACCTTGCCACACAGTTGAACACAAGT GCTGTCA
U30884a	34	A G	---	---	TAGGGTAGCATTTAAGATTGAGGAGTCATTAGCAGTGATGATTTGGGACCTGCCGTATAATCT GTTCTTCTATCCCACGTTAGCCAATGTTCTTGATGAATCTATAGTGCATAGAACACAAAATCTAT TGACGGAAGTCATTAGAATGGCTTGTGATATCTGATGGCTTGAACCTTGCCACACAGTTGAACACAAGT GCTGTCA
U31216b	78	A G	---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAACA GCCGTATCA[AVG]CCCCCTCACTAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGACCAAGACCCCTTACACGTAGAGGAGGAGGATGCCAGCCGATTGCGCTTAGCCCGCC TGGTAGCCCTTCCAT
U31216a	70	G A	---	---	GGGACAGCATATGTGGCACCCTCTCTGTGCACGTGAAGACCAATGAGACGGCCTGCAACCAACA GCC[G/AT]CATCAAAACCCCTCACTAAAGTTACCAAGGCTCTGGCAAGAGCCTGACCTTTTCAGATA CCAGACCAAGACCCCTTACACGTAGAGGAGGAGGATGCCAGCCGATTGCGCTTAGCCCGCC TGGTAGCCCTTCCAT

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U31416c	76 G A ---	---	---	AGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC CTCCTCAC[G/A]CCACAAATCTGGTGCCTCTCTCTGCTTACAATGTCTAGGTCCTCCCACTGCCTGCT GGAAGAAACACACTCCCTTTGCTTAGCCACAGTTCTCCATTCACCTTGACCCCTGCCACCTCTCC AACCTAACTGGCTTACTTCCT
U31416b	68 C T ---	---	---	AGTTGCCAGCTCCCATGTACCAGCAGCTGGAATCTGAAGGCGTGAGTCTTCATCTTAGGGCATCGCTC [C/T]TCTCACGCCACAAATCTGGTGCCTCTCTCTGCTTACAAATGTCTAGGTCCTCCCACTGCCTGCTG GAAAGAAACACACTCCCTTTGCTTAGCCACAGTTCTCCATTCACCTTGACCCCTGCCACCTCTCCA ACCTAACTGGCTTACTTCCT
U37519a	78 C T ---	---	---	ACGGGTACACAGAGAAACCTGAGTCTAGCCATGAGGGGCTTATGCTCCCACTCACATTGTTCCCTCC AGACCGCAGG[C/T]TCCCCAGCCTCAGTTGCTGGAGCTGTACATGACTGCTGCTGCCTGCCAGG GCTGCAAGCAAGGCTTCTCTATCTGGGGAGCGTCTCGAGAGAGCGCGAGAGCGCCGAGGCGCAGAAC ATGCCAGGTGTCC
U37690	54 A G ---	---	---	GACCACGCTGAACCCACCCACCCGCTGTGCTGACCATGGGCCCTGAGCGTCTT[G/C]CCCCGAATTC ACGAGGCTGAGGCATCCGGGAGCTGGCGTAATGCCTGGCCGAGTGTGTGTATCCCATACCCCACT CTGGAAGGAACCATCCAGTAAAGGCTTT
V00540	39 T C ---	---	---	TGAACCGTTTCAACATGGAATGATCTGATTGACTAA[T/C]ACACCAGTCCACACTTCTATGACT TCTGCCATTTCAAAGACTCATTTCTCTATAACCACCGCATGAGTTGAATCAAAATTTTCAGATCTTT TCAGGAGTGTAAAGGAACATCATGTTTACCTGTGCAGGCACTAGTCCTTTACAGATGACCATGCTGAT A
X15943	106 A T ---	---	---	TCAAGAAGGTGACTGCCCTTGATGATGGGATGGGAAGATGAATGACTGGTTTTTACTGGGTGTAA AACCACCTGAGCCTCTCTGAGACCATGTGGTTTTTAAAA[A/T]ATCCATAAGGGAAGGTACCCACAC CAGTATCTGAGTTCCAGTAGCTAAGACCCCTAGAATTTGGATTTCATCTCTGTTTTTTCATGTCTCTCCTT GTAACCCCTGAGATCATCAG
X52011b	148 C T ---	---	---	AGGAAGATCCCAACCGACCCCTCCTGGCCTAATCCTTTAGATTAGGTCACATTACATTACATTAGGA ACCCAGACCGGAAAGTTGCTGAAAGGGAAGGAGACACATTCACAAAGAAAGTTGCGAAATTCGG AAATCTGTTGTGCA[C/T]GCTCAAATGAAAACGCCCTTCGGCTTTGGGCTTTTATTTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT
X52011a	118 A C ---	---	---	AGGAAGATCCCAACCGACCCCTCCTGGCCTAATCCTTTAGATTAGGTCACATTACATTACATTAGGA ACCCAGACCGGAAAGTTGCTGAAAGGGAAGGAGACACATTCACAAAGAA[A/C]GTTGCGAAATTC GCGAAATCTGTTGTGCACGCTCAAATGAAAACGCCCTTCGGCTTTGGGCTTTATTTTTTTGGAACTG CGAGTGGCTTAGGCTAGCCT

X54741	24 A G ---	---	CAGGCCACCTGTCTCTCTCCAC/GJTGACAGCTTCTGAGTCAACCCCTCTGTCCAGCCAGCTCCT GGACAAATGGAATCCCCAGGGCTCCAGGACTGGGGCTTGCCAGGCTTGCAATAGCAAGGCCAG GGCACAGCTGGAGACGATCTTGCTGGCAGGGCTGGCCTTGTCGCCAGCCCAACCTGGCCCCCTTCTOC AGCAAGCAGTGC
X54869	99 A G ---	---	AAGCATTGCGTTTACAGTGCATCAGATACATTTTATTTCTTAAATAGAAATATTATGATTGCAT AAATCTGAAATGAATTATTTGCTCT/GJATACAAAATCTAAATCAATTAATTGAAATAG GATGCACAAATTACTAAAGTACAGACATCTAGCATTTGTGGGGCTCATTTTGTCAACATGGTA GCCGTCTCTGACACCTCCAGAACGCGAGGTGCTGGGCCCTTCTGCCTGGGACCCCGGGAACCTCTC CTGCCGGAAGCCGACGGGATGGGCCCAACTTCGCCCTGCCACTTGACTTCACCAATCCCT TCCTGGAGACT/GJAACTGGTGTCTCAGGAGCGAAGGACTGTGAACCTTGCGCTGAAGAGCCAGA GAAATGTGAAGAAATGTGACAAAGCCTTTAAGCGGTTGTACACTTGATTGTATATAAGATAA/TGJT CATACTGGAGAAACTCCAGAAAGTGTGACAAATGTGACAAAACATTTAATTAATCTCATACCTTA TTGCACAGGAAAGCATTTATACTTGAGAAAAATTGTATAAGAAATGGAAGATCAATTAATATCTGCT CATATCTTAACATCAGCGAGTT
X78932	62 T G ---	---	CTCAACCCATAACCTCAACCCACATCT/GJATCTCCACCCACATCCCACCACATCCACCTCCATCC CCAAACCATCTCATCCCCAACTACAGCCCCAACCCAGCCCCAGACTAATCCACAGCCATCCCCAA CTCATCTCATCCCCAACTGCAGCCCCAACCCACCCAGGGCCATCCCCAAACCCATCCCCAAGCC AAACTCAACACCATCC
X80026	25 T C ---	---	ACCCAACTCAAGTCCAGGCCCCAGGCATCTTCTGCCCCCTGCTTGTGGCCCATCCAGTCCAGG CGCCTGGAGCAAGTGCAGTACTTCTCTG/GJCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAAGTCCAGCAGGAGGGCGCGCTGCGCGTGTCTGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCCTCACTGCGCCACGCTCCCGCGCGCTCT CTTTTCTCCCAAGC/GJAAACCAATGCGCCCCCTTACCTGCGTGTCCCCGTGCGAGGCCGGGGCTT CTTTCAGAGC
X80197b	99 G C ---	---	ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAAGTCCAGCAGGAGGGCGCGCTGCGCGTGTCTGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCCTCACTGCGCCACGCTCCCGCGCGCTCT CTTTTCTCCCAAGC/GJAAACCAATGCGCCCCCTTACCTGCGTGTCCCCGTGCGAGGCCGGGGCTT CTTTCAGAGC
X80197a	28 A G ---	---	ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAAGTCCAGCAGGAGGGCGCGCTGCGCGTGTCTGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCCTCACTGCGCCACGCTCCCGCGCGCTCT CTTTTCTCCCAAGC/GJAAACCAATGCGCCCCCTTACCTGCGTGTCCCCGTGCGAGGCCGGGGCTT CTTTCAGAGC
X85106	150 G A ---	---	ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAAGTCCAGCAGGAGGGCGCGCTGCGCGTGTCTGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCCTCACTGCGCCACGCTCCCGCGCGCTCT CTTTTCTCCCAAGC/GJAAACCAATGCGCCCCCTTACCTGCGTGTCCCCGTGCGAGGCCGGGGCTT CTTTCAGAGC
X87160	128 T G ---	---	ACCCAACTCAAGTCCAGGCCCCAGGC/GJCTTTCTGCCCCCTGCTTGTGGCCCATCCAGTCC AGGCGCTGGAGCAAGTGCAGTACTTCTCTGCACTTTGAAAGACCCCTCCACTCCTGGCCTCA CATTTCTGTGTGATCCCCCACTTCTGGGCTCTGCCACCCACAGTGGGAAAGGCCACCCCTAGAAAG GGCACCCAGAGTGACCAAGTCCAGCAGGAGGGCGCGCTGCGCGTGTCTGTTTCTTTT CAGCCCGGAGAGGTCTGACCTGGGGCTTCTCAAGCCTCACTGCGCCACGCTCCCGCGCGCTCT CTTTTCTCCCAAGC/GJAAACCAATGCGCCCCCTTACCTGCGTGTCCCCGTGCGAGGCCGGGGCTT CTTTCAGAGC

[illegible]

1282	130	C T ---	---	---	GTGGATCACCACACAGTCTAATTCAGATGTTTTTTCATTACCCCTAAAAGAAATCTTTGTACCCATTA GCAATTATTCCTCATTCCTGCCCTCACCCCCAGGCCCTACTCTTTATOGCTATAGATTGGCC[C/T]ACT TGACATATCATACACATGGAGCCATACATATGTGTGCCCTTCATGATTGGCTTCTTTCACCTGAGAATA ATGTTTTCAAGGT
6810	68	C T ---	---	---	AGTATCACACATACATAATATTAGATATACACAATAATAAATCACTCCCTACCTTGAAAACTTT A[C/T]AGAAGCATTTTTAATTTACAACACAAAGCTCAACGAACCTACAATAAGTCTAGTAGTCTG TTACGTGCCAAGGATAAGGCTGAACAATAAATTAACCCCTTAAAATGTCTATGAACAAGTACAA TTTTCTTTTGAAGTTCTGCAGAGCAATGACCACTAAGAAATATTTTAAAGGC
6817	118	A C ---	---	---	CCAAGTACATTGGGTGAACGATGAGTAGTGTCTAGTATTTGCTTTTGTAAATCCAGTTAAGACCA TCAGCATATACAACATCATCACTAACTCAACAATGTAGCTGCAGGTAAC[A/C]GTGGATACCCCTG TGTGCTACTGGCTCCAAAGGCATTGAGGGGATCATCAAGATGTTGGACACCTTGTGTTCAAATC TTGGTTCAGGTGGGCTGTGCAGATCGGCTTTTGGTTGGTTGCTTAG
6819b	212	C ---	---	---	CCATTTATTTTCTCTAAATTTTAAAATAGAAGACTTTTAAATGGAACAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCTAGTAAAGCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTTGCATATACAAAATTTCTGCTATTTTGTCTTAGCAAA CAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATATCCA
6819a	166	G T ---	---	---	CCATTTATTTTCTCTAAATTTTAAAATAGAAGACTTTTAAATGGAACAATTTAGTACCATCATGTCA CCCTGAATGCCAGCAATACCTCGACTTTTACACACGCGAAGCCTAGTAAAGCCCGTCAGTAGT ACACATTTCTCTATGGTCTTCAACAGTTT[G/T]CATATACAAAATTTTCTGCTATTTTGTCTTAGC AAACAGCAATAACTTTTGTGTTTCTCTATATGACACCTAATATCCA
681xx	39	A G ---	---	---	CTGGTATGTCATAAGCAATCCATAATTGTTATAGCTATT[A/G]TTATACTATGGCACCATTGCGGACA CAGATTATATATGTCAGACACCCAGCAATGTCCTTTAAGATATGCAGCAAGCACAAATCTGTCATGGT TTAACAAAAGAAATGAACGTCTAGG
6972b	149	G T ---	---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTTCAGAAGGAATGGTACCAGTTCCTCTTGTACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGCTGGACTCTTTTGGTTGGTAACTATTGATTATTGC CACAAATTCAGA[G/T]CCTGTTATTGGTCTATTTCAGAGAGATTCAACTTCTCCTGGTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT
6972a	122	A G ---	---	---	AGGATTCCTCTTTTCTATTGATTGGAATAGTTTTCAGAAGGAATGGTACCAGTTCCTCTTGTACCT CTGGTAGAATTCGGCTGTGAATCCATCTGGCTGGACTCTTTTGGTTGGTAA[A/G]CTATTGATTAA TTGCCACAATTCAGAGCCTGTTATTGGTCTATTCAGAGATTCAACTTCTCCTGGTTAGTCTTGGGA GAGTGTATGTGTCGAGGAAT

7598k	210 A C ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACAGATTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTCCCT CAATGCAG[A/C]
7598j	208 A T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACAGATTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTCCCT CAATGC[A/T]GA
7598i	192 G T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACAGATTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTTTTA ATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCC[G/T]ATTTT CCTCAATGCAGA
7598h	144 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACAGATTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTTTTA ATATTTGATCC[C/T]ATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598g	142 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAACAGATTTACCTTGAGAAATGAAAATTATTTCTTG[A/G]GATGCCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598f	120 A G ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]CAGATTTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598e	83 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]CAGATTTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598d	77 C T ---			AAAGGTAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCCAAGCCAAAGGAACTCA ATGAAATAAGCCGCTAA[C/T]GCTAACAGATTTTACCTTGAGAAATGAAAATTATTTCTTGAGGATGCCCTT TTAATATTTGATCCCATTTATGTGAGAGATTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA

7598c	56 A G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACACCCAAAGCCA/A/GJAGGAAC TCAATGAAATAGCCGCTAACCGATTTACCTTGGAGAAATGAAATTTATTTCTTGAGGATGCCTT TTAATATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598b	47 C G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATTATGATTTACAAAAGACAC/C/GJCCAAAGCCAAAGGAAC TCAATGAAATAGCCGCTAACCGATTTACCTTGGAGAAATGAAATTTATTTCTTGAGGATGCCTT TTAATATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7598a	30 A G ---	---	AAAGGTAAATCAAAGTCCCTCTATAAATT/A/GJTGATTTACAAAAGACACCCAAAGGAAC TCAATGAAATAGCCGCTAACCGATTTACCTTGGAGAAATGAAATTTATTTCTTGAGGATGCCTT TTAATATTTGATCCCATATGTGAGAGATTTTCCCTGATATGTTATCTTATTTATATTTTCCCGTATTTT CCTCAATGCAGA
7998c	116 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTACAGACATCTTGCCAGCTCTCCTGTA ATACITTTAATGAATGGGTAGTCTATCTTCAAGGTCCCAATA/A/JCCTTGAGGTTCCCT
7998b	94 A C ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTACAGACATCTTGCCAGCTCTCCTGTA ATACITTTAATGAATGGGTAGTCTT/A/JCCTTCTCAAGGTCCCAATAACCTTGAGGTTCCCT
7998a	75 A T ---	---	GTGTTGATCTCACTGGGTGCTGCAGGCCGGAGCTGTTCCCTATTACAGACATCTTGCCAGCTCTCCTGTA ATACITTTAATGAATGGGTAGTCTTCTTCAAGGTCCCAATAACCTTGAGGTTCCCT
8071	119 A G ---	---	AAATACAGAAATTTTATTAGAACTGTTTAAAGTAGAAAAAACCCCTGTCAAGAAAGACCAGGTGG AAAAATGGGTCCCAATAAAATGGAATTTTAGGGCAACAAAAGTCTAAAAGGCC/A/GJCAAAAAGAGA AATAGCACCACTGTCAATTTGAACAATGGCTAGTTACTTGCATTTTTTGGCATTGTTAATCACTGAATC TGGGTTTTCTCTGAAATCCACACAGAGCATGCACACACAACTTTTATCAT
8467b	93 C T ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAATCCTGGATATTTGGCTTATCACTT TGACGCAAAATCCACTTTGCTGTAA/C/JTGGTCACTCCGAATCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8467a	70 A G ---	---	AAGGCTTTCCTCTAAACATCAGTCTACGGAGAAACTGGGAAATCCTGGATATTTGGCTTATCACTT TG/A/GJCGCAAAATCCACTTTGCTGTAAACGGTCAATCCGAATCCCTTCAGAGAGCAAGCAAGCAAAA TTAAGTGTGATACTGGAGCTTATGCATGCAAAAGCTTGCAAAAAGTATTAAAGGAAAAATTACTG
8498	84 C T ---	---	AGGTTTCAGGGTTTGGTTTTAAATCAGGCTGCACACCTTTCAATCAATCTGACATCTCTCTATGTCA AACTGGCTTCAGCTAG/C/JTAACTCTTCAATCGAAAAAGAAAAAATTTGCTTTAAGGAAAAAA AATCCAGTTTTAAGAACAAATTAACATTAGTCTTTAAATAAAAGGAGGCTAATGTTTCATGTTGCT TTATACATCCTTCTCCTCAATACAGAACCCAGGAATGTAATTTTCCCTAACTCAG

WI-18562	29	G A ---			CTAAGGAAAAATTTAATGATGGAATATC[G/A]JACAAATATTTCAACATCATTTAAAAACAAAGTAG CTTCTCTATTTCACATAGCTTAGTTGGGATAGAAATAGAACTAATGTTACAATGATTTCTTACATT TAGCATTAAATCAGAAACGA
WI-18618	51	A C ---			ATAGCAGACTTTTAATCAATGCCAGAGACAAAAGTGAGGCCGAGCTAAGAAC[A/C]CGCTCAGCTTCG TTACAATGAAGAAATGGTTTCCCTTCGATGCAAGTATAATTGTAAACACACAGTGTCTGCACAGTTC AC
WI-18683	22	C T ---			TAAAGCTTTCAGGACTGGACTC[G/TTGGTCCCTTTATTGAGACTGACAGGCCAGTGGGTCCACCCAAA CAAAAATAAATTTCTCCCAAAGCCTGCCTGCAGT
WI-18520	75	G A ---			GACTTTGGTGATTAAATGCTTTTCCCTTAAATATGAGAAATAGTGTAATTTCTCCTTTTGTCTTTT ACTAC[A/G]JCCGGAGTGGTAAATACTACCTACTGCCAACAAACACGGGCATCCACTCTGCTTCAA TGCCTCTCCGTGAGAC
WI-18563	94	A G ---			AAATAAGTTTTATTGGCACACAGCCAAAGCCCACTGGATGACACATTGTCCACGGCTCATCTTGCAA TACAATAGCAGGGTTCACTAATGTGAC[A/G]JACATGGTGTGGCTCACAAAGCCAAAGATATT
WI-18582b	69	T A ---			GTCTATTCAATTTAGCTAGACCCATTTCACTCTGTTTAAATGGCTACATTTGTTTTCATTGTGAGAC TT[A/G]GTCCATAATTTAATCAATGAGTCCATATTGAAAGACATTTGGATCGTTTCCAG
WI-18723f	94	G A ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTCACATGCTGTAGATTTTGAAG TGGTAACAGGTACATAGGTAACCAA[A/G]JATATAGCTTATTGGTGAATCTTCATCCT
WI-18723e	71	T C ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTCACATGCTGTAGATTTTGAAG TGGT[C/A]ACAGGTACATAGGTAACCAAAGTATAGTTCTCATCCACATTCACATGCTGTAGATTTTGAAG
WI-18723c	96	A G ---			AACTTTATTGATCTGACGATCAGCGATTAGTTCTCATCCACATTCACATGCTGTAGATTTTGAAG TGGTAACAGGTACATAGGTAACCAAAGT[A/G]JATAGCTTATTGGTGAATCTTCATCCT
WI-18619	44	G A ---			TTTATTACAATATTTAGGTGGCACAAATAACTAACAGCTTCTGA[G/A]JACAGGAGGTAAACATTCTCA TAGACTTTTGCAACTCAGCCAGAAAGTAAACTCGAAATA
WI-18715	76	G A ---			TTATTCACAAAAGTGATATTGCAGAGGGTCTGGGGCTGTACATGGGCAGGGCTTGGTGAGCTTTG TACATGGG[G/A]JCTGGGAGACAAGGGAGCCTCCAGGTGGAAGGTATTTTAAATAAAAAATAA TGGAGCTACAACCCACCC
WI-18535	107	G A ---			GTAATAAAGTTTTATTGGCACAGCCACGCTCGTTTCATATGCCATTGACATCTGCTGTGCCCT ACACAGCAGGGTGGGACCTGCTCTTCACGGGAGAGCTA[G/A]JTTGTTTAAAGCAGTGGTCCCCAAC CTTCTGTGGTCCCGTG
D17525	107	C T ---			AGAGTGGTCAGAACACACAGGCCGAATCCAGGCTCTATCACTTACTAGTTTTCAGTTCTGGGCAGGTGAC TTCATCTCTTCGAACCTTCAGTTTCTTCATAAGATGGA[A/C]JGCTATACCTTACCTACCTCGTAAAA GTCTGATGAGGAAAAGATTAACTAATAGATGCATAGCACTTAACAGAGTGCATAGCATAACACTGTTT TCAATAAATGCACCTTAGCAGAAGGTGATGTCTACCAGGCAGACGAAG

DWU-133c	313	A G ---	---	---	TAATTGGCCACTGCCATTATTTATACAAAACAGAAATGTCATGACTTTTTATGTGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTGGGCAGTCCT GATTTAAAACTAAGACTGGCTTGTTGTTAAATGAATATGTTTCAGTTTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATAATGATTAGACT
DWU-133b	236	T C ---	---	---	TAATTGGCCACTGCCATTATTTATACAAAACAGAAATGTCATGACTTTTTATGTGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTGGGCAGTCCT GATTTAAAACTAAGACTGGCTTGTTGTTAAATGAATATGTTTCAGTTTTTGAATTTAATAGTAACCTC AATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATAATGATTAGACT
DWU-133a	199	C T ---	---	---	TAATTGGCCACTGCCATTATTTATACAAAACAGAAATGTCATGACTTTTTATGTGTTACCATCCT TTAATAGATCTCATACACCAGAAATTCAGATCATGAATGACTGACAGAAATATTTGTGGGCAGTCCT GATTTAAAACTAAGACTGGCTTGTTGTTAAATGAATATGTTTCAGTTTTTGAATTTAATAGTAACCTC TTCCAAATTCAGTAAATGGTATCACTCGTTTACCCCTTTTAAAGATAATGATTAGACT
DWU-36	102	C T ---	---	---	ATGAGATCCTTTAAATCCTTCCATGAAACGTTTTGTGGTGGGCACCTCCTACGTCAAACATGAAGTG TGTTTCCCTCAGTGATCTGGGAAGATTTCTACQ/C/TJGACCAACAGTTCCCTCAGCTTCCATTTCCGCC CCTCATTATCCCTCAACCCGACGCCACAGGTGTTTATACAGCTCAGCTTTTTGTCTTTCTGAGGAG AAACAAATAAGACCATAAAGGGAAGGATTCATGTGGAATATAAAGAT
DWU-387	169	G T ---	---	---	GTGTATAAATGCAACTGTTGATTTCCTCAACATGGCTCAGAAATTTCTATCCCAATCTTTTCTGAA GATGAAGAGTTTAGTTTTAAACTGCACCTGCCAACAAGTTCACITCATATATAAAGCATTATTTTA CTCTTTTGAGGTGAATATAATTTATATTAACAATG/GTJAAAAGCTTCITTAATACTAAGTATTTTCA GGTCTTCACCAAGTATCAAAAGTAATAACACAATGAAGTGTCATTATTCAA
DWU-447b	172	--- ---	---	---	ATTTAGTGCTTTGCGTTAAAAAATCATTGCAAAAGTATTCTGAACGTGCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAAATCACTGTAATTAATTAGTTTGAATAGAGCACAAGCTTAGCTAATCAA CCATTATTTTCAATTTGTTTCTAAGAGGATTGANAATCAGTTTAGTTTAAATGCTTTCTGTTAG GCCCTTCTTCTTACAATGAAGAGATGATTCTTCTAGTTTATGGTTA
DWU-447	85	A G ---	---	---	ATTTAGTGCTTTGCGTTAAAAAATCATTGCAAAAGTATTCTGAACGTGCAAGCTGCCAGTCAGAT GGGCTGTTGCCATTTAA/JATCACTGTAATTAATTAGTTTGAATAGAGCACAAGCTTAGCTAAT CAACCAATTTATTTTCAATTTGTTTCTAAGAGGATTGANAATCAGTTTAGTTTAAATGCTTTCTG TTAGGCCCTTCTTCTTACAATGAAGAGATGATTCTTCTAGTTTATGGTTA
DWU-476	63	C G ---	---	---	GTAAATTCAGTTTTTTCCAGTTCCTCTTTTGTCGCTCTTCAATAGCGTTTAAAGGTGAG/C/GJAT AAATCACTGTCCATCAGGTGAGGTGCTGCTCCATACCCAGCGGTTCTTCATGAGTAGTGGGCTATGCA GGAGCTTCTGGGAGATTTTTTT

DWU-505	67 A T ---	---	---	TCATAAGGGCAGTATCTCCTCTAGCTAGTGCCCATACAGAAAATTCATCACCATACAAAAATTTA[A] A/TJTGACAGTATTTATGTTTTAAAGCACAGGTGTACCGAAAACGTGAAAAGCTGAATTTATGGGTT CTATGCATGCATTTTGCCTAACCTAGAGAAAAGAGTTTGATAAATTTTACCAGCTTTGAAGATGGAT TAACITTTGACTTTGAGCTTTAAACITTTAA
DWU-512	131 A G ---	---	---	AAATCCAGGCATTTGGAATCTGTTTTTCATGATTTATAGAGGGTTTACACAAGTGCCACTTATTAA AGAGCTTCCACAGTGAAGATGGAGAGGTGAACITGCTTTGAATATTTCCAGATGTGTTGGTC[A/G] TGCGTATGGCAGTGAGCAGGTATGTGTTTGCITTTGCTTGCACTGAAAATTAATTTGCTATCAAGAGC AAACTATGAACGGTTTTTTTATCAAGATGCTCCAGAGTGAAGTGCCGAG
DWU-525	97 A C ---	---	---	AACTGCATATAGATAATATOCAGGATGTGTGGCTCATCTTTTCAGCTTGTTCTATCTACTGTTTGT ATATACAGTTTTTGTAAACCATATGATTGA[A/C]AAGAAAGAAAGTCTATGCTTAGGCCAGTCAGTACA CCCAATTTTAAAAAATAACATATCTTGTCTTTCACAAATATAGTTGAACAAGATTTCCCTAAAAATTT CCACCAGGATTAAATCTCTAAAATTTAGTCTCTGATTTGC
DWU-59	94 C T ---	---	---	CATTTCTTTGTGAAGGTAATGGACTCACAGGGGAAGAACATGCTGAGAATGGAAGTCTACCGG CCCTTTCTTTGTGAACGTCACATGGC[C/T]GAGCCGTGTTCCAGGTGGCAGACTCGTTTTTG GTAGTTGTTTTAACTTCCAAGGTGTTTTACTTCTGATAGCCGGTGAATTTCCCTCCTAGCAGACATG CCACACGGGTAAGAGCTCTGAGCTTAGTGTTAAGC
EST11	68 C ---	---	---	CTTGATCATGGGGTGGAAATTTTGTGTATCTGGGCTTCATGGGATGCATAAAATTTTCCAGTTGGTAAG CAGCAGGTGCCAGGGTCTGGATCAGAAAAAAGGCA
WI-19856b	63 C T ---	---	---	CACACTGGCATCTAGGCCTTCGCCTGCATTGCAGAAGGAGAGCCAGGTCCCTCCTGGAGAA[C/T]G CTGCGTTCCCGAGCCCGCACACCGGCTTTGCACACACAGGCTGTGAGGCAGGAGGTGGGTAAAGACGT AGCTGTAGACCCAAAGCAACCAAGCCCTGGGACCCCTGGGGAGAGGACACTTTAGAACATGGAA AAGTGTGGTCATCCCATCATTAGACAAGACACATCCTACATAATAAAAAAGT
WI-18014	40 A G ---	---	---	TCCATTTACATTTGGTGGCATTTGTTGAATAGCTACAGAA[A/G]GAATGAAAGTGCCACCATCAGAGT GTAATTAGGTCTGTGTGACCCAGGAAGTGTCTGTTAACAGAGATTTCTCAAGGGCAAAGTGGCTTCT A
WI-18036b	97 T A ---	---	---	TTCCAATGTAAGAGTCAAGTACCAAGTTAAACTTCTAGAAATACAAAGAGAACATGATAAAATCTG ATCACAGTGGAAAAATTTTAAATCTTTTCATAA[T/A]CTGACAGGTCAAGTAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18036a	27 T C ---	---	---	TTCCAATGTAAGAGTCAAGTACCAAGTT[C/J]AAACTTCTAGAAATACAAAGAGAACATGATAAAAT CTGATCACAGTGGAAAAATTTTAAATCTTTTCATAATCTGACAGGTCAAGTAAGCTAAAGGAAACATAT TAGGGATCTGAAGG
WI-18046	72 C T ---	---	---	TGTAAGGTGACTTCTATAAGCTTCCCTAAACTGTCAAACITTTCACTTTACTGAGATTATTTTCAGGCCAAT GTGTC/TJTGTTGGGCTGAGATTGATTATCAGCTGGGTAAAGTTAACCTGTTCCTGTTTCA

WI-18063	105 G A ---	---	---	AGGCTTTAAACTGATAACAAATTTGCCCTTTAATCACATACAAAACTCGACTTTTCATTCCTTCCTTC CCATGTTTCTGATTTGATGTAACTTAAATTTGTG[A]TCTTTAACAAATATACGTAGCTGCA
WI-18078	86 A T ---	---	---	AGTTGAAAGATCAGAGAGGTTATGGTTGGTAGCTGAAGTCAAGTCAAGTCAAACTGGTCCAGTGTG TTGTTTTTTCAGCATCAG[A]TGTCCACTAGCCAAAGTTGATCTCTGCAGTATCTACATGTGGT
WI-18091	90 T C ---	---	---	CCAAAGCTCACTCAGTATTTAATCATCTGCTAAATTCATCCTTTGTTAATTCATCAGACACTGTGGT TTTCATCTCTAGAAAGTTTGACTT[C]GGGCCTTTTTATACCTTCCATATCTCAACTTGTAAAGC
WI-18119	38 T C ---	---	---	GCAATCTGTAAACAGTTTGGTAGTGGTATTACAGAGGAT[C]TTGTAATAATGGATTGGAGTACTTAC CACTATTTTCATCTGCTCTGAAATAGTTCACTAACCAAACTACGACAACAGITTAATTTGGTTCTT
WI-18142	66 T G ---	---	---	TTCAAGATAATTACAAATGGAAGGGGACCAATAATTCACCTTTTAAATCGAAAAATACTATATAC[T/G]CCCAATAAACTCACAGTAAATAAGCTTCAAAAAGCCTTAAGACACCAAAAGAGGAAAA
WI-18178	68 T C ---	---	---	GCATAGGTTGAGGGGTGTACAAGAGGAGAACCAAGATTCAGTCCATGCCCTGGAGGTTAGTCTGGGG GT[C]CGGCGGGATGGACACACAGACACATAGATCTGGCATCTGATAGCAGGGGCATACAG
WI-18244	35 G T ---	---	---	TCAATCTGAAAACCTTGCTGAAGCCAGCATGGGTG[T]GGGGAGGTGATTATGGCTGGGGAAGATG GGCACTACCCGACAGCAGCATCTAGCACACAGTGCAGGGACGTTGAGGTGGCAGAGGGCTTT
WI-18245	115 G A ---	---	---	ACAGATGTCAGTTGTTGAATGGCCCATTAAGTATGGGGCTTTCTTGTTAAAAGTCATCCAAA AGGCTTGGCAAGAGTTTGTATACAAACGGAGGACAGAGAAACATGA[G]A]CTGGGGAGTAGGCTCT GACAGAAAGTGGGCTGTC
WI-18261	26 G A ---	---	---	GATTTGAAGGGATTGCTTTATTTAAAC[G]A]TGAAAAGCGTGATAGAGGAACCTGTTTAAGATAAACAA CTTATAAATACTCCCAATTGTAGAAGTGAAGATTG
WI-18268	88 C T ---	---	---	TAGAGGGGAAAAGAGGTGGCTGGCTGGCCCTCAAGACATGAGAAACGGGTGGTGGCTTCCAAGC TTCTTACTTCCCCCATAGAT[C]TCTTGACAATGTGCTGCAGAAGCCTCCAACCTGGAAC
WI-18299f	107 C A ---	---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCCAATTTTTT ATCTATTTGGGTCTGAGAAATCCACAAATTTGA[G]GAATTCCTTTTGCCAAATTTTGACATATTCTG CAG
WI-18299e	101 A G ---	---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCCAATTTTTT ATCTATTTG[G]A]GTCTGAGAAATCCACAAATTTGAAGAAATCTTTTGCCAAATTTTGACATATTCTG CAG
WI-18299d	77 G A ---	---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCCAATTTTTT T/G]ATCTATTTGGGTCTGAGAAATCCACAAATTTGAAGAAATCTTTTGCCAAATTTTGACATATTCTG CAG
WI-18299c	67 T G ---	---	---	TCACAAGTCAATCTCCCATCCAAATGACAGTTTGTCTAAGATCATTAACTTGGTTTGCCCAATTTTTT T/G]ATCTATTTGGGTCTGAGAAATCCACAAATTTGAAGAAATCTTTTGCCAAATTTTGACATATTCTG CAG

WI-18299b	52	G A ---				TCACAAAGTCAATCTCCCATCCCAATGACAGTTTGCTAAGATCATTAACTTG[G/A]TTTGCCAAATTTT TTTATCTATTTGGGCTGAGAAATCCACAATTTGAAGAAATCTTTTGCCAAATATTGACATATTCTG CAG
WI-18299a	48	C T ---				TCACAAAGTCAATCTCCCATCCCAATGACAGTTTGCTAAGATCATTAA[C/J]TTGGTTGCCAAATTT TTTATCTATTTGGGCTGAGAAATCCACAATTTGAAGAAATCTTTTGCCAAATATTGACATATTCTG CAG
WI-18307	76	G A ---				TCAACTGTACCAAGTTTAGCAGCAAGAGGATACCTCCCTAGAGACTTTTCAGTGGACTTAAACTCAG TTTCCGCTG[G/A]TGCTATGTAAGCATCCACGATGGTTTTATTTACTCTGCAATCTGCTTGGTCAC
WI-18324	72	C T ---				TTTGGTATGAAATCTTTCTCTGACATTTACCAATCATCATTAACTCCGGGGGGTGGGTACTGATT TATC[C/J]TAGATCCAAATAAAGCATGCAGAAAGTG
WI-18350	48	T C ---				ATGAAAGTCACCTTCAATCATAAGGGTCAAGAGAAAGAAATGTTTTTCAGA[T/C]TAAATCTATGAAAA GGTGTATCTGCTTGCAATTTAAGAAACAACACAAGTCA
WI-18395	77	G C ---				TCCTGACATGATCTGTGAATAACGTGATTGTGGTTGAATTTCCCTGGAAAAATTTGAAGAAATAAATTG ATTATCAAG[G/C]JTGTCATTGGTTTATACATATCTCTCTCTCTTAATGCAAGCTATG
WI-18398	62	G T ---				TGCAGTGGCAAGACACTCTCTCGAGGAAAAAAGAAAAAGAAAAAACAACACTCAAGGGT[G/T] GATAACATTGCCAGTATAACCATTAATCAAAACAGCAGCAGAAATTTGGAGGATAATTTGTT
WI-18396	21	C A ---				CTCGTTGGTATTCTCTCATCC[C/A]JTTCCTTTTCGCTCTTTCTTAAATTAAGAAAAAGCAATGGAATT TTAAAAGATCATCTAAGAAATAAGAACTTACATATGTAACTTTAACTTATCAACTTGACAAAGTC AATGAAAA
WI-18409a	20	C A ---				AAGATGGGAAGAGAGAAATC[C/A]JTTCCTTACTAGAGATTTTTCCTTTTAACTCTTTTCAAAAT TCAAAGGATCATCAAGGAGCAGGTGCAGAAGCTCTGGGGCCAGAGGCCCAAGTGCTA
WI-18442	62	C T ---				AAAAAGGAAAAAGAAAGGATGGAGTAAGAGAGAGAGACAGAGAGGAAACAAAAATAAGTTTCTGG[C/T] JTTGGCTGATCTGGGTGATCAGGTGGACACTATTATCCAGAGGGGAAACACAGAGAAAAAAGG TTTATAGGTGGGAGAGAGGA
WI-18452	38	G A ---				TTGATGTTAATACTGTCTTCTGGAGATCGGCTAAAAATG/AJAAAGCATAGTTATTATTAGCTTTGG TATATTCTGCGACAGATTTAAACAAGTAAGACATATATCAACCTCATATTTTCCAACCA
WI-18489	102	A C ---				ATATAAGCTGGAGACTGTGGAGGTGAGAGGCAGTGGGACTAGCTGTTGAAAGAGAGAAATGTAGC AGTAGTAAAGATGAAAGACTGCAAGGATTCAAACA[A/C]JGGTTATGGCAATAGAGGTGAAAGAAA AGGCCATATAAA
EST5b	93	A ---				CTGGTGGGAGGAAACAAATTTGGGTATATTCTACATAATGGAAAACTCTTCAGAAAAAAGAGGAA CAACCACTGAATCACACAACATGGACAAATCTCAAATCATATTGCTGATGGAAGAAAGAACCATTC TAAGAAATACACAGTACAT

EST5	93 A	---	---	CTGGTGGGAGGAAACAAATTTGGGTATATTATACAAATGGAACACTCTTCAGAAATAAGAAGGAA CAAACCACTGAATCACACAAACATGGACAAATCTCAAATCATTTATGCTGATGGAAGAAACCACTTCA TAAGAATACACAGTACAT
EST6	48 C	---	---	TTAGCTACTTTTCAGAAATGAAGGAGAAATGCATTATGTGGACTGAACCGACTTTTCTAAAGCTCT GAACAAGCTTTTCTTTCTTTTGCACAAAGACAAAGCAAGCCACATTTTGCAATTAGACAGAT
EST8	158 A	---	---	GGACAGGACCTTATCCCGCTGTGCAGCAGCGGCTGATGGACTGAGGCCCGCAGGGATCTGGGCC CTTTCTCAGGGCGTCTCCAGACCCAGAGCTGTTCTGCTTTGAGTTTCCCTAGAGCTGTGCGGCCA GATAGCTGTTCTGAGTTGCAAGCACGATGGAGATTTGGACACTGTGTGCTTTTGGTGGGT
WI-18740c	104 GT	---	---	TCCTCATTGTTGGGGATGATGAGAAAGAAATGATTTGGGAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCTCATTACCACATGATATCCAGTAGTG[GTATAATTCATTTTGTATGGCTTCTATTTT TGGCCA
WI-18740b	96 C	G	---	TCCTCATTGTTGGGGATGATGAGAAAGAAATGATTTGGGAAATTAAGTAACAACGACCTAGAAAAGT GAGAACAACTCTCATTACCACATGATATC[G/G]AGTAGTGGATAATTCATTTTGTATGGCTTCTATTTT TGGCCA
WI-18985a	105 C	T	---	CCAAAGTCTCCTGTTCCGCTCATAAAGAAAGTTTTTGGGATGGGAGAGAATCCAGACCATCTTGGGCA GCCAGGCCCTTGCCCTTCATTTTACAGAGGTAGCACAA[C/T]GATTCCAAACACAAACCCCTTCCCC TTTTAAATGATTTCTGTTCTAATGCCATAGATCAAGGCCCTCAGAAACCAATTGTGTGTTTCTCTT TGAAGCAATGACAAGCACCTTACTTTACGGTGGTTTTGTTTTCTTAT
WI-18746	114 G	A	---	GCCAGCAGCTGAAGTCTCTTTCTCTCTCGGCTGGAGAACATCAAGATACCTTTGCGTGGATCA AGCTTGCTACTTGACCGTTTTATATTACTTTTGTAATATCTT[G/A]TCCACATTTCTACTTCAGCT TTGGATGTGGTTACCG
WI-19112j	212 G	A	---	CCGTGTTACACACACACAATGGCAAGCATAGTCGCTGGTTACGGCCAGGGGAATATGCCAAGG GACCCCTTAATGGAAACACAGATCAGTAGTGCATCTCATGACAACCAAGAAACCGACGACAAA TCTTTTGGAGATTTCTTCTAGTGGCTTAGAACATGGCTTTTAAAGAACACGGTGATATCTTTGAG GGTGACAAGGC[G/A]TCTCTTCAACACAGTTCCATACCAACTGCTTTGCTCTAG
WI-19092	232 A	C	---	TGGTGGCTGGCTAGCTAGTTTCTACAGAACATAATTTGCCCTCTATAGAAGGCTATTTAGATCATGT CTCAATGGAACACACTCTTCTTACGCTTACTTGAATCTTGCCTATATAAGTAGAGCAACACAG ATTGAAAGCTTCTGATCAACGGTCTGAAATTTTCATCTTGAATGCTTTGTATTAACTGAATTTTC TTTTAAGCTAACAAAGATCATAATTTT[C/A]C]ATGATTAGCCGTGTAAC
WI-19057i	175 G	A	---	CCCATTTATTATAGGCCAGTGATGCTCAAGAGTAGAGGAGCGTCTACTGGTCTTTCAACTCCTTCA GTCTTCTGACGGGGACTTTACCGTGACAGCGGAAGTGTATTGTACGTCCAGGACCGCAGCCACTG TCTTCATGCAGGAACACAGTGCCAGATCCCCACAGCTC[G/A]TCTCTTCATCTTGGTTTGGCCACA

WI-20103	168	C T	---			TGGGACTTCCAACTCAGAGGATGTGGGAATCCAGCTCAAAATGATACAGATAAACTGGGATGGCT AGGATGGACAGGCTGTGGATATGGGAGTCATGGGTCAAAAGCTTATCCAGATGGCTCCAGGTACAG TGGGCTTCTGGCTGGAAGCTGGGTCTCCCA/C/TTCATCTGCTCAAAAGCTTCTTGAAGGAGC TGGTTTGACTTCAACTTGCTAGAGCTAGCCTCATCTTCAGTCAACTGGGA
WI-20441	111	G A	---			GCCTTACCCATTTTGCACATATACATATGCACCCTTTGCAGTGGCAACATATATATCCACACTA TAAACATACCACATTTATAAATCTTTGAAGGACAAAGAAATGGA/G/AJTTGAATAGTACCCCCCAA CATATACAAGAAAGTTAGCATACTTACCCGTTTTCTACTACATCAGAGGCAAAATAAGAAATCTTT TAAGAAATCTCAAGACTGGCTCATGGCAAAATGAATATGCTAAATTTGGGG
WI-19911b	116	A G	---			TGGTTACAAACCTAAGCCCATATACAAAATTAGGAACACATTTAGATGCCTCTTTTGAAGAAGCGT TTTAGTCTTTTAACTGAGTTTAAAAAATAACAATGCAATTTTAA/GJACACTGTTTTTGAAA ACTTAAAGTGCAGCAATA
WI-20613c	165	A G	---			GTCTCAAGGGGGAGAAAACCTGGTTCTTTATGTACAAAGCACAGATGTAGGTACAGTATATAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGCGAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATAAGTTGGAA/G/AJAAAGGGAGTTTCCACGCAGCCAGTGGTGAGC TGC
WI-20613b	156	A C	---			GTCTCAAGGGGGAGAAAACCTGGTTCTTTATGTACAAAGCACAGATGTAGGTACAGTATATAACA GATACGTAGTACATCTGTAGTATTAAATGGCATGGGAGGAGCGAGTTAGAAAAACATCTAAAC AGCTCCTTAGAAGGCCAATAATA/GJAGTTGGAAAAAGGGAGTTTCCACGCAGCCAGTGGTGAGC TGC
WI-19984	47	A G	---			CAGTAAAGAGTGATTCAAGTTGCAGTAATACACTGACAGGTAATAA/GJATAACATTAGAAAA GCAAAATTCCTTTAACTTAAGGACAGACTGAACCATCAGGTATGGTCTGAGATCAAGTAATACAGG TAGGCAAGAGTTTTCCACACTGGAAAATGAAGGCAGTTTTTCCAAATACTGTGAATTTACAAACAT TGGGGGAAGG
WI-20122	135	T C	---			GCCAGTTGGAATATGGCTATACGAACCAAGAGTGATACAAAATGGAAGTGGTCATCAGGCAATA ATTGTTCCCTTGGAACCTGCAACCGACTGTCCATGCTGTGGGGACTTACACATTCAGTTTGACAGI T/CJTGAAAAACCAACTGGAGCTGCTTTTCCAAAGATGTCTGTCTCCTTCAATAGGAATCCATG TTATTCTTTCTTGGCTTAAGCTCTTATATCTTTCAAATGACCTAAGCTGA
WI-18846a	49	G A	---			GAGTGCCATACCTTCTCCAGGCCCTGCCCCAAGAGCAGGAGGTGCCTTG/AJAAAGCTGGGAGCGT GGGCTCAGCAGGGCTGCTCACTCCCATCCCGTAAGACCTCTTCCCTTCTCAGCAGGCCCAACATG GCCAGACTCCTT
WI-18959	123	G A	---			AGCAGTGGCCCTTATTGCATCCAAACACCGCTCTTGACAGGCTGCCTCCCTTGTGGCAGCAACGGC ACAGCTAATTCTACTCAGAGTGTCTTTAAGTGAAAAATGGTCGAGAAAGAGGCACC[G/A]GGAAAGCCG TCCTGGCGCTGGCAGTCCGTGGGACGGGATGTTCTGGCTGTTGAGATTCTCAAAGGAGCGAGCAT GTCGTGGACACACAGACTATTTTAGATTCTTTTGCCTTTTGAACC

WI-20146	31 T C ---		---	---	TGAGTCTTCTGTAATTCATTGAGCAGTAGC/T/CJCATTTGAGATAAAGTCAAATGCCAAACACTAGCTCTGTATTAATCCCATCATTAAGTGTAAAGCCTCAITTTGAATGTGTGAATTCATACAGGC
WI-18922	74 G A ---		---	---	TAGGAATTGGTTTCACGCTGAGGCAATTAGACACTTTGGAAGATGGCATAACCTGTCTCACCTGGACTTAAGC/GA/JTCTGGCTCTAATTCACAGTGTCTTTTCTCTCACTGTATCCAGGTTCCCTCCAGAGGAGCCACCACTGTTCTC
WI-18763b	53 A G ---		---	---	TTTCTGTGTGGGGTCAACCGTACAATGGTGTGGGAATGACGATGATGTGA/G/JTATTTAGAATGTACCATAATTTTGTAAATTTATTTATGTTTTCTAAACAAATTTATCGTATAGTTGATGAAACGTCA TGTGTTTTGCCAA
WI-18763a	38 A G ---		---	---	TTTCTGTGTGGGGTCAACCGTACAATGGTGTGGGA/G/JTGACGATGATGTGAATATTTAGAATGTACCATAATTTTGTAAATTTATTTATGTTTTCTAAACAAATTTATCGTATAGTTGATGAAACGTCA TGTGTTTTGCCAA
WI-18771b	75 G A ---		---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAGAAGATGTTGGGAACAGAA/G/AJAAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
WI-18771a	57 A G ---		---	---	CTCATTTCCATGCCATTGTGGAATTGAGCAGAGAACCTGCTCTCGGAGGATGCCTAG/G/JAGATGTTGGAAACAGAGAATAAACTGAGTTTAAGGGGGACTTAAACTGCTGAATTCACCTGTGGA
WI-18820	70 T C ---		---	---	GGGAAAAATTTGAGACGCAATACCAATACTAGGATTTTGGTCTTGGTGTGTATGAAATTTCTGAGGCC/T/CJTGAATTTAAATCTTTTCAATGTATGTGATTTCCTTTTAGGTATATTGCGCTAAGTGAACCTTGTCA
WI-18742b	51 C T ---		---	---	ACAAAGTCCTGTAGCCCCCTCACCTTTCTCTTTTCACTTTTGCCAAATGTA/C/TJATCGGGTTGGTTTCTTGATTTATTTAAACGGTTGTGGTTTCTTTTCCACGGAGGTTCAAGTAAAGCCGCTGCAGGAGAGTTTACC
WI-18882	94 C T ---		---	---	GTGTGTCCAAAAATGGGGTGTCTCTGCTACCTTGACCCCTCCCTTTCCCTCTGCTTCTCTCTCATCATCATTTCCCAACAACATCCTCTGCCA/C/TJACACAACAAACGTAAAGTTTCATTTGGGCAAAAATTGAGC
WI-19970b	167 G A ---		---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCAACCGCCCCCGGCAGTCAGTCCAGCGGGGAGGAGGCTGCCGTTCTGCCAGTTCCCTCACTGCGGGGACAGCAAAGGCCCTCTCACTGGTGGTCAAAAG/G/JTAGTCACCTTGGCCTGGTGCATCCACAGAGGATGTTGTTCAAACCAGAAATCTTTTAAACGACTGACCTTCCCTTAAAAACAGA
WI-19970a	126 T C ---		---	---	TATAAGCCCGAGTCACAGGACGGCCTGTCTGGCCACAGACAGGGGCTGCCTGTGGAGCCTGCCAACCGCCCCCGGCAGTCAGTCCAGCGGGGAGGAGGCTGCCGTTCTGCCAGTTCCCTCACTGCGGGGAGCAAAGGCCCTCTCACTGGTGGTCAAAAGGTAGTCACCTTGGCCTGGTGCATCCACAGAGGATGTTGTTCAAACCAGAAATCTTTTAAACGACTGACCTTCCCTTAAAAACAGA

WI-19067d	202 T G ---	---	TATTGCTGCTTGCTCACTGCTGACATTACAGGCGAGGAGGCTGCTGACGCTCCCTGGCTGTGC ACATTCCTCTGCTCCAGAGACTGCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTCTC TTGGGCTCTAGGCTCGGAGAAATGTTGTAGGGGTTTATTTTTTAAATAGTGTTCATAAAGAAAT GACATAGTATTCTTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067c	153 G C ---	---	TATTGCTGCTTGCTCACTGCTGACATTACAGGCGAGGAGGCTGCTGACGCTCCCTGGCTGTGC ACATTCCTCTGCTCCAGAGACTGCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTCTC TTGGGCTCTAGGCTCG[G/C]JAGAATGTTGTAGGGGTTTATTTTTTAAATAGTGTTCATAAAGAA ATACATAGTATTCTTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067b	151 T C ---	---	TATTGCTGCTTGCTCACTGCTGACATTACAGGCGAGGAGGCTGCTGACGCTCCCTGGCTGTGC ACATTCCTCTGCTCCAGAGACTGCTCCGCCATCCACAGATGATGGATCTTCAGTGGGTCTC TTGGGCTCTAGGCTCG[G/C]GGAGAATGTTGTAGGGGTTTATTTTTTAAATAGTGTTCATAAAGAA ATACATAGTATTCTTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19067a	57 C G ---	---	TATTGCTGCTTGCTCACTGCTGACATTACAGGCGAGGAGGCTGCTGACGCTCC[G/C]GCTGGCTG TGCACATTCCTCTGCTCCAGAGACTGCTCCGCCATCCACAGATGATGGATCTTCAGTGGGT CTCTGGGCTCTAGGCTCGGAGAATGTTGTAGGGGTTTATTTTTTAAATAGTGTTCATAAAGAA ATACATAGTATTCTTCTCAAGACGTGGGGGAAATATCTCATATC
WI-19106	247 T C ---	---	TTATCCAGGCTACCTTGTTAGTTATTTAGGAGACAGTCTCAAGCACTAAAAAGTGGCTAATTC AATTTATGGGTATAGTGGCAATAGCACATCTCCACGTTAAAGACAGTGGATCATGAAAAGT GCTGTTTGTCTTGAGAAAGAAATAATGTTGAGCGCAGAGTAAATAAGGCTCCTTCATGTGGC GTATTGGGCCATAGCCTAATAATTGGTTAGAACCCTCCTATTTAAAT[C/J]GG
WI-18944	147 A G ---	---	CAAGGCAAAAATATCAGGAGCTTTTACACACCTACTAAAAAGTTATATGTAGCTGAAACAAA AATGCCAGAAGGATAATATTGATTCCTCACATCTTTAACTTAGTATTTTACCTAGCATTTCAAACCC AAATGGCTAGAAC[A/G]TGTTTAAATTAATTTACAAATATAAAGTTCTACAGTTAATATGTGCATA TTAAACAATGGCCTGGTTCAATTTCTTCTTCTTAAATAAATTTAAGTTTT
WI-18952	232 G A ---	---	CCCATCCCTGTGAAGGAGTAGGCCACTCTTAAAGTGAAGGATTGGATGTTTCATAATACATAAA GTTCTGTAATTACAATAATTATTATGCCCTCTCTCACAGTCAAAGGAACTGGGTGGTTGGT TTTTGTGCTTTTTTAGATTATTGTCCCATGTGGGATGAGTTTTTAAATGCCACAAGACATAATTTA AAATAATAAATTTGGGAAAAGGTGTAA[G/A]ACAGTAGCCCCCATCACAT
WI-18932d	177 C T ---	---	CACACCTCATGCTAGCCTCACGAAACTGGAATAAGCCTTCGAAAAGAAATTTGCTTTGAAGCTTGTA TCTGATATCAGCACTGGATTGAGAAGTTGTTGCTGATTTGACCTTGTATTCAAGTTAACTGTTCCC CTTGGTATTTGTTTAAATACCTGTACATATCTTGAGTTCA[C/J]CTTTAGTACGTGTGGCTTGGTCA CTTCGTGGCTGAGGTAAAGACGTGCTTGIGGAAGACAGTCTGIGGCTTG

WI-19042	193 A C ---			TTTGTGAGTGTGCCTCTCGCAATGCCTCAGTAGCATCTCAGTGGTGTGAAGTTTGGAGATAGATG GATAAGGGAATAATAGGCCACAGAGGTGAACCTTTGTGCTTCAAGGACATTTGGTGAAGTCCCAACAG ACACAATTTATCTGCGACAGAACTTCAGCATTTGTAATATGTAATAAATCTTAACCA[AC]GGCTG TGTTAGATTGATTAACATCTCTTTGGACTTCTGAAGAGACCACTCAAT
WI-18984	208 A C ---			ATTGGCCCTGTACAGTTTGCTTATTATAAATTCATTAACACACTACAGGTGTTGAATGGTTAAAA TGTAGGCCTCCAGTTTCATTTTCAGTTATTCTGAGTGTGCAGACAGCTATTTCGCACGTGATTAAAT GTAACCTTATTAAATGAAATCAGAAGCAGTAGACAGATTTGGTGCAATACAAATATTGTGATGCAAT TATCTT[AC]ATAAAATGCTAAATGTCAATTTATCACTGCGCATGTTTGACT
WI-18851	90 T A ---			GCTTCAATGGCGATTGATTCAGTGGCCACAAATGTAACAGGGTGGTAGTTGTTACTCAATTTTGAAT ATACCTTTTCTTATTGATTCT[AC]GTAATATAGGATCCTGGAATGAGACCTGGTGGAA
WI-18821b	76 T C ---			TCAACTGCAGTGTGCTTCCCTCCCTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC ACAGAGGCT[AC]GGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAACTTGCACACCTTCGTGTGACG GTGCTGTGT
WI-18821a	69 C T ---			TCAACTGCAGTGTGCTTCCCTCCCTATAGGGCTGGAATCTGTCTAGGAGCCCTCTCTCGGAGGCC A[CT]JAGAGGCTGGGGGTAGCCATTGTGCAGTCATGGCCCGGGGAACTTGCACACCTTCGTGTGACG GTGCTGTGT
WI-19021a	20 C G ---			ACTCCTGTGCTGTGCTCCT[AC]GACTGTGCTTTTGAACACAGGAAAGTCACAGAGTTTAAAGAGAA GCAATTAACATCCTGAATCGGGAACAAAGGTTTATCTAATAAGTGTCTCTTCCATCACGTTG CTACCTTACCACACTTCCCTGTGATTTGGTGAGGACGTGGCATCTTACTTACGTACGTGGCATAAC ACATCGTGTGAGCCCATGTATGCTGGGTAGAGCAAGTAGCCCTCCCTGTG
WI-18908	70 G C ---			TGGAAATTCCTTTCATCTGGAACCATCAGAAACACCTCACACTGGGACTTGCAAAAAGGGTCAGTA TGG[AC]TTAGGGAACACATTCATCCTTGGTCAAAAAATCTCAATTCCTCTATCTTTGCCACCC TCATGCTGTGTGACT
WI-19037b	155 A G ---			CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACGCCCTGTATGACCGCGCAATA TCCCCAAAGCTTTTGGTCTCAAGTCATGCCCCGAATTTAGATGCTGGTCATTTTCTGGAGAGGGTC CCCTCCCTTACGAACACA[AC]GAAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGOCAGGCACCTGGGGGTGGAAGTGTGGTGACACAGTGAATGGGAGGTGG
WI-19037a	47 C A ---			CACGGTTCTCTGCATCGTTACCAGAGCGCCTTCTGGTCTAGCCACG[AC]CTGTATGACCGCGCAA ATATCCCCAAAGCTTTTGGTCTCAAGTCATGCCCCGAATTTAGATGCTGGTCATTTTCTGGAGAGGG GTCCCTCCCTTACGAACACA[AC]GAAACCCAGCCACATGACTAGCACGCTGAGCTCTGCAGGGACCA GTGOCAGGCACCTGGGGGTGGAAGTGTGGTGACACAGTGAATGGGAGGTGG
WI-19064	66 T C ---			TTGAGGAGGTGGGTGAACCTGCTCTTGGCAGGGATTTGTGACACTGCATTGCTGGGCTGTGTCCT[AC] C[CT]GGGCTCTTCTGACCTTGCACCGTGGATACAGGCCATGTGCCATGTTATTTGGGTCTCTGGAGGG TGGGTGAATAAAGGC

WI-18972a	112 A G ---	---	AGGCTGTGGCTTATGTACCCCAACAGAGGGGTCTGAGAAAGTCTGGCTGGCTGGATGCCCCCTGCC CCCTCTGGAAGGCTCTGCAGAGATGACTGGCTGGGGAAGCAG[AG]TGTCTTGTCTGGCCATGGAGCC TCATTGCAAGTTGTCTTGAACACCTGAGGCCCTTCTGTGGCCACCAGGCACTACGGCTTCTCTCTCC AGATGTGCTTTGCTGAGCACAGACAGTCAGCATGGAATGCTCTTGGCCA
WI-19016b	184 C A ---	---	GTTTGCAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGATTAACGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAACCTTAGATACATAGCCGACTGTATACAGAGGTTTCATCTCAACCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTCTGTGTGGGGTTTGCTTGTGCACTGTAG
WI-19016a	161 C T ---	---	GTTTGCAAAACCAACATGTGCTCTTTTCAGTCATTCACCTGTTTTAATATGACATGGTAGAGAAGATAAG GTTTATGGCAGGTAATTTTGTAAATGTGATTAACGAAGTTCAAAGATTAGAAATACATCTGTGTC CTGAAACCTTAGATACATAGCCGAC[CT]GTATACAGAGGTTTCATCTCAACCTCAACACTATTGAC TTTTGGGCTGGATAGTTCTCTGTGTGGGGTTTGCTTGTGCACTGTAG
WI-20096	21 T C ---	---	GGTTTGGGGCATTTATTTCT[CT]GATAGAGACTGGCACAAGCTTTGGGCTAAGGACACCCGCCCTCC ACCTCATCTAGAAACAATCTCTCGCCAGACTTG
WI-19591b	156 C A ---	---	TGGGGCAATTTTAAACAAACCAAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGCCCATG AGTATAAGATTAAAGGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGCCCC CTTAGGGTGGGAGCTCTTCC[CT]CACTACCACTCCCAACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTCTATCTGGCTAGCTGTGTTATCTAGGGATTGCACCTTCTTACACGG
WI-19591a	45 T A ---	---	TGGGGCAATTTTAAACAAACCAAGGCAAAATATCACATATACCTGAATATAAGGTAACCTCAAGC CATGATATAAGATTAAAGGCAGTTACTTTATTTGAACAAGGAAGTGGCATAAGCAACTCAGTGTGT GCCCTTAGGGTGGGAGCTCTTCCCCCTACCACCTCCCCACCCCAAGGCATCATTTTGGGAGAAAAA GTGCTCTCTATCTGGCTAGCTGTGTTATCTAGGGATTGCACCTTCTTACACGG
WI-20310	125 G A ---	---	TCCTCCAGCTCTGTCATCCTTGTCTTGGGGTCTGTGTTACGGGCCCCCTCCAGGCATGTTTCTTCAT TTAGGTAGGAACAAAGGCCAAAGAACATACAAGCCGAGCTCTAGAGGCTCCA[GA]TTCAGAA CTGGACCTTTAACTACAAAGGAATCTTGGATGAATTTATTTAGCGGGCTTCAGGAGCAGGTAGC AGAGCCAAAGTGCACACTCAGGCCATCTTCTCCCAATGTCTCTCCCGGGG
WI-20860	224 G A ---	---	CTCTCCCCTAAGGAGCCTTGGCCTTGACGCCCCATTACAGAGGATGGAAGTCACAAGACAATGAGT GGAGCCTCATGCCCTTCCCATGAGGAAGCCCTTAGTATTGCTGACATCTGCCCTTATCTGCTCTCCT CCCCAGTGTGTACACTTGGGCAAGCAGAGTGGTGGCAGACCAGCCTTGAGAGCTCTTGTAGACC GGAAGGAAGGGCGGTCA[GA]GGTATGGCTTCTGGCTCTCTGGCTT
WI-9359a	39 T C ---	---	GACGTGGACAAAGGAGGTTTAAATGAATACTTTGTGTTG[CT]CATGTTCAAAAAAGAGTATTAAT ATTTTGTGACTGCATCTGTGAATGAAGACACTCAAAAAGCCATGTTTCCCACTTAGGTTAATAATAA GGCTATTTGTCCACCACTCTCGGGCATTGCTGCAATATCTCGGCCCTCAAGTGGGAGGCCACGTG GGAACAAGGCCTCAGAAAAACAAGGACATGCAGCCTCCCTGAGCCAGTTCCT

WI-19766b	93 A G ---	---	TGGCCTCAATGACTGGTACATTGGAGAAGCTGTGCAGCAGCATCTTTCTGTGGTGGGAGGCGCAGGAGATGAACCATAGGAGCCAAAGTC[A/G]GACAAACAGAGAAGGACACCAAGCCTGAAACCCCTCGGACAAACAGAGATTACAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCTTACCCTCCTCTACACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-19766a	31 G A ---	---	TGGCCTCAATGACTGGTACATTGGAGAAGCTG[A/T]GCAGCAGCATCCTTTCTGTGGTGGGAGGGCAGGATGAACCATAGGAGCCAAAGTCAGACAAACAGAGAAGGACACCAAGCCTGAAACCCCTCGGACAAACAGAGATTACAGCTGAGGGATGTCCCTGGAGGTTCTGACCCATGAGAGGCCCCCTCACCTCTTACCCTCCTCTACACCAAGCTCTCCGGCAGTCATGGACTTAT
WI-20512d	126 C G ---	---	CTTCCTCTGTTGGCTTTGCATTGTGCGATTGGAAAAACCACTTGGAGAAGGAGACTTTCTCTGCAAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGACAAAGCTTAGAAAGGAACTGAAATTGCTTCTTTGAATATGGAATTTAGGGCGGGCGTGGTGGGCTCACGCCTTATTAATCCAGGCACGTTGGGAGGGCCAAACGCGGGTGGGATCACCTGA
WI-20512c	59 T G ---	---	CTTCCTCTGTTGGCTTTGCATTGTGCGATTGGAAAAACCACTTGGAGAAGGAGACTT[G/T]TCTGCAAAACCTTAAAGACTGGTTAAATTACAGGGCCTAGGAAGTCAGTGGAGCCCTTGACTGACAAAGCTTAGAAAGGAACTGAAATTGCTTCTTTGAATATGGAATTTAGGGCGGGCGTGGTGGGCTCACGCCTTATTAATCCAGGCACGTTGGGAGGGCCAAACGCGGGTGGGATCACCTGA
WI-19599	230 C G ---	---	GGGCTTAAATTCCTCTGTTGGGACTGGTCTCTCCAGTTTACAGCAAGGATCGCACCCCTTTTCCATAACCCCTTCTACATTGGAAAGAGCACACCCTTGATACAGAATGGCTCCGTGAAGTCTTTTAAACGGACAAAGGTAATCACAGCTAACAAACGTTGATGTTGGCTCACACGTAACCAACACCTCTTTTTCAGAACAGAGAGCGTTAAAGTAAAGGGCA[C/G]TTCAGAGTAACACTGCTA
WI-20679	82 T C ---	---	TGTTGAAATAAAAAATTCATGGTCTTAATTGAACCTGATGTTACTTTCTTTTGAATATCCTTTTITTCATTAAAAATAAT[C/T]CTAAACCACTCTAIGTGTTCAACCTTCTGTTTAACTAAGATATGGGTTTTGGAAAGGCCACAGTCACCAGCTCCATGAAGTGGGCGAATGGTCTTGTTTGGAAAGCTCTCAGGGTGTTCCTCCAGAA
WI-19909a	29 T C ---	---	CCAGAAATAAAGCCTGAATATCTCTTTCT[C/T]TAAAAATAATTTTCTCTTTGCTCTTCCAAATAATCTTAAAAATGAACCTGTCTAGTCTATTTTAACTAGGCAATTATAACACTACCTAGGCGGGTTTTTCTCTTATACCTTGTCTGTACTGTGGAATCAACTAA
WI-20341	221 G C ---	---	TTGAGAGGCTGAGAGAAGGCTGTTGAGACATTGTAATAAGTCTTAGGGGCATGAGACATTAGGAAGGCCACAATTATGAGTAATGAATGTGGAGGCTGATGAGAAGCTACTGCTCCCATTTGTTAGCAGGAGGAGGAAAAGTGTCTGGGCTCTGGCAGCAAAAGCGTGTGTAATATTTGGGTGACGTCATGCATCCCCCATGCATTGGTTT[G/C]ATGTCTCCAGTGAGCTGTGGGCAAGTCT

WI-20113	60	T C ---	---	TTCTGGTACATGGTAAGTGCTCAGTATTACTGAGTGAATGAGCAAAAGACCTGAAATACTGTCJGGA AACAGTAAAGCAAAATACCACACAAATAGGAGGAATATTTTCAGACATAGGATATTTAAACAT CACTCAAAATACTGGAGCATGATTAGCAATAAATCTATTCCATAAAACAGGTAGATAAATGTCACA GCTTTAAATATAGTTAAGTACAGTTGATCCTCGTTATTCATGGATCCGTATT
WI-20895	107	G C ---	---	TGATGGCAAAGTACAAAGGCTCTGAAAGACAGAGTAACAAGAGCAGCGCAGCGGTGTGGC CACTCCACCCAGGAGAACACTTGACTTCAATTAAGGCAAAGCJCTTTACTCTGTTACTTTTCCTC CCACATAGTTTAAACCAATAGAAAGGCATTCTATTCTCACACTACTGCTCTCTAAGGTCCTAGGAA TATAACTGGTACTATAGGCAAAACAGATGCA
WI-20721	72	T C ---	---	CCTGCAATCACAAAAGTGGAACCTAGTTGATATTTTGAATCATACTTGATTAAACCACCTTCAGAAA TTCTATTCJAAACACACTAGCAACTTCCTTTTATCAGA
WI-19415c	161	A G ---	---	CTGGATTTTAATATTTCTGGCCTAATAACCAATGTAAATCAATAAAATTTGGTCAATATCTCCACCTC ATTCTGCTAACATGTTTTCGAAGATCCCTAAGTAAGGTATTGACGACTGAGACTAGTCCGGCAAA GTCAATGAGACCCCTTAGCTGATCTCATAGJAAAGTCCACCTCATGAAGGAGATGATTCAACATCTCAA GCTAAGGTATAAAGTGTGGACATACAAAGGCTTACAAGTTTACACTTCTCG
WI-19348c	103	C T ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCAATGCACCTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGCGGTGAJCTGCTCTCTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAAGTCTGCTGCTTGTAGAAGCTTCTCC
WI-19348b	98	G A ---	---	GCTGCTCACTGGTAGCCAGCCAGCTGCAGGATGGTGGGTAGCAAGTACGATGGGCAATGCACCTCTG GCGGTCGATGAAGAGACTGTTGGTCATGGCGJAGTGACGCTCTCTCCAGGCTCATATGGATGTCCT CGAGTTGCACAGGGAAGTCTGCTGCTTGTAGAAGCTTCTCC
WI-19635	98	A T ---	---	ATTAGTTCGTGTTGGGCCACATTCAAAGCCATCCACACAAGCTTCTGTAGGCAATGTAAACAATG TTAAAGGTACAGTAAATAACAGTATTATJATCTTATTGTGTAGCACGGCTGTGAGGCTCATT GTTGAATGAAGCATCCTTAGGCAGCACGTGACTGCATGCAGATATGTGCTGAAAGAACTTTGCTTT T
WI-19641a	46	A G ---	---	TCCAATTTTCAGAAACATGTTCCATGTTTATTGTGATAAGCACTAGJAGJTATTATAGTCTCATGTTT TTAATTTATGAATAACGTCTGATTCATTGATTTTGTATTTACAGAAGATGTCAGGGCTATCTCATTC AGTTATTAATAAATGGATCAGAGTAGTAAGTCAAGAAATAGTGCATAATGTGGTTTAAATTTTAAAA AATACTCAGAAATGAGGTAGTATTTTAAATTTTAAATTCATCCACCCACTTG
WI-19642b	52	C A ---	---	ATATAGAGTACCATCCATGGTTTCAAGCATGGCCTGGACACATTATCCCCCTTCJAJGGGTAAACCAG GACTATTGCATGAGCAATCTTAAATACGTATTTTGATGGACACAAGTTTTCATGCTATTA
WI-19673b	180	C T ---	---	TCTGCCATGATCACATTGTGATGAAGAACATGATGGTCACTAGTAGGTAACTTCTGTGTCATTGCTCCT TACTCTCAGTGAAGGTGCTAGTGGATTACCTACCCCTGCTTTTGCATCACCACCTGTAATCTAATAGT GAAAAGGCCAAATGATGCTCAGTATCACTGTGAAAACATTTTTCJCTCTGGACCAGCTGAAAGAA TCTTGAGGAGCCCTGAAGGCTTCAAGGTCCACACGTCAAAAAACACAGCCC

WI-19673a	35 G A ---	---	TCTGCCATGATCACAATTGTGATGAAGAACATGATG(A)TCACTAGTAGGTAACCTTTCTGTGTCATTG CCTTACTCTCAGTGAAGTCTAGTGGATTTAAGTACCCCTGCTTTTGATCACCACCTGTAATCTAAT AGTGAAGAGGCAAAATGATGTCAGTATCACTGTGAACAATTTTCCCTTGGACCAGCTGAAAGAA TCTTGAGGAGCCTGAAGGCTTCAAGGTCCACACGTCACAAAACACAGCCC
WI-19724	35 A G ---	---	TTTATTTGGAAACAAAGGATTGTAATTTGGGTAA(A)GJCTGAGTCACGGTGGCCCTGAGTAGTGTC CTAGAAAGCAACACGAGAGTTTGGTTTCTCTT
WI-19307	196 T C ---	---	TCCTCTCCCCCAACTAGATGATGTTGATCACTCTGCCCAAAATGGTACCCCTTCAGCAAGAACTG CAAGCCCTTCTTGGATTTGCCCTTCATGAGAAATGGTGGCTGGATGGAGGTGACATTCCTTGGCTGT GGTGAACCTGCAAGAAAGGAAACCAAGCAATGTATCCATAGAGGCCCTTAAAGAGACCCG(T)GJTG AAATGGGCCATGGTCTAAATTTGGTGTGAATAAATAACCTCTTTGGCTG
WI-19269	85 A T ---	---	CTTCCCTCATCCCTCTTCCACCACACCATCCCGGAACAAGTCTCCAGGATTCCTGCCCACTGGC CATTTTGGAGTGTCC(A)TJTTGGTAGCAATGTGGAACCAACAGGCCCTTTGTGGAGAAATGG AGGGGTTGAGGAGTCCAGAGGGGCTTATTTAGGGCTTTGCCACTTGGCTCATAGGCGAGCTCG ATCTCTCATCATCTGGACAGGTGGAAGCAATCTTCCCGGCGTAGGCA
WI-19946	122 C T ---	---	CAATGGACTGAATGAGTGCCTGGTGGGTGGGCACACACACCTTCAATACACGTCGAAGGTGG CTTCCAGTTTTAGAAACACAGAAATCTGCATCTCAGCTGAGCGACAGAGAGGT(C)TJCTTCTCTG ACCCAGAGCGCACTCAGAGCCAGGTCCTGGTTTCAAACTGCATTTAACCTGGCCAGAGAGTTTAC CGTAGGCATCTTTAATAAACTAACTCCAGCAAAATGTGGGTACGGTTACTAA
WI-19956	141 G A ---	---	CACAGCATGGTGAATAGCATCAGATTGAATGAAAAGTTTGTAAATGCAACCATAAATAATTATA ATAATATACATCAAGTAACCTTTACAGCACACATTTTTAGGGCCCAAGTTTGGATCTGTCTGGACCT CAATGT(G)A)CTCTCGGAGAGCAGCCACGTTAGCAGCAGATACCTTACAGCTTGTCTACTCTCAA GTGATGGCCAACAGAGCTTCTGAACTCCTCCTGGGGAGGTAGCTGACAAG
WI-19076	40 G A ---	---	TTGGTTGGATACCTGCTGGAAAAAAGCAGTTTAA(T)G(A)GTATTCAAAATACCTTTTAAAAA GTATCTAGCACAGAATTTTCTGTAACTAGATTATGTTGTAACTTTTTTCTAAATCTGTAGGAG TGTCGGTTGTTAAGAACTAGAGCTTATCCTATTCCAAATCTATCTTGGCTCCTGAAAAACTGCAGA AAGGCATTTGAAAGCTGTTCTTTAAGATATGGGATTTCTTTTATTTT
WI-20218	26 T C ---	---	CCACACACTCTGGTTTTATAAGCTA(T)CJAGGACAGAGCAGAGATGGAACTGAAAAACAGGGTAG AAAAAACAATAAATTGGAGGGGAACAGTGGGATGCAGAAAGAAATGACAACAGCCACATGTGCCCA GTCAAAATACCTTTAGTCCCTGCAGCAGAAAGATGCCAACCAAGTCTCTATACTGGCTGGGGATCCTGCC ATGGATGCAGGAGAAAAA
WI-20295g	154 T G ---	---	CAACCTTTTGACAAGGGGACGTGAATTTCTGATGAAGTTATCTTACCAAGTTTAAATTCATAATTG GGAATTCCTCTTTTAAATATCTCCAGGCTTGAATGGGGAGGGCTGGGCTCTACCCCTTCTCTTTCCA TCCAGTCTATTGCCAGAT(G)CCAGAGAAAGCGGGGAGCCAGCTCTCCAGCATAGCCACTGTGG GTCCGGCTTCACTTCTGTGCGACTCCTCATGCTGGGACTTGCTTTCGGGG

WI-20361a	192	G A ---	---	CTGGGAGTGTGACCTAAGTGACATTTTTTAAATGCCAAATACAGTAATCTCCAAGCTTTTAAATGGCTTATGCAAGATGACAGAAATATGTGAAATCTGATTGTCCAGAGTTACACTCTGCACCTCCAAAGCTACAACAGTCCACAGCTGAGAGGTTCCCTATACCTCTACTCTGTGACAAATTAGC[G/A]ATCCTTC
WI-20572	75	A G ---	---	AAATGGGAAATTCCTAACTACAGAGACAATGGGTCTCTACAGTAGGCCG GAGCCAAACCCAAACAAATAAAACAGAACTCTTTTGTAACTAAGTCATACCTACTTTCTCTCTCAGAAATT[G]TCATAAAACATCATCTTTACAACATGGAGAACGAGGTAGGCCATAATTGTTCAATTCATCTTTCTCAAAATTTAAATTTGTTTAAATCCCAAGGTGCCTATTGAATCTCTCAAAAAATAAATGCCTATCAGGTATCATACCTGCAATGCTTCTAATATCTCTGATTAT
WI-20588	133	G A ---	---	CATGACAAAAGACAAAAGATCAAGGAGTAACATAAATTAAGTTGAATAAATAGTATACAGCAATCTTCACTTTTAAAGAAAATGTGAGATCCTTTGTTGGTTTTTATTTCCTTAAGTACAAAATGCTAAAC[G/A]GGAGCCGAGCTCTTCCGCAATTCAGG
WI-20593	79	A G ---	---	TGACCTCATACTGGGTTCTGTTAGAACACAGCCACTAGAACAACTCCAGTCTTTTTCAGTCTGTTGCTGTACTTTCAG[G]TTTAAATCTGGGAATGAGCATGAGCAATGCTCCACCAGATGAGGAAGAAAAGCTGTTAAAGGAACTCAGGATGTTGTTAGGAAGGGGAGTGGATGCCAGGCCCTTCAACCAGACTATCCAGAAGCCATTCCATGGGGTATTGGTCTGCATACTGTGAGACACTGAGCT
WI-19765	57	T C ---	---	TTCTTTGCCAAGCCTGTTCTTCAAGTTATTCAGAACTGGGTGTATACCTTGCTCTCAIT/CJATGTATCTTGTCCTGCTGCTTTTAGGTTAGCAAGGTGTATGAATACTTTTAAAGTTTGTGTTCTTTTCTCTCGTGGTATCAGTGAATACTGATCTATCTCTGGCTAGGGTCAATTTACAAAATTGCCATGGAACTGAGC
WI-19066i	239	A G ---	---	AAAAGGCCACGTTGGGATAAAATCACTCACCATCGACGCCACCAAGTATT TGACAAGGGAGAGAAAGGGAATCTACTCATTTGCAAGGAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTTAGCCAGTCCCAATCTCTACGAGGAACCTGGCATATGTTCTTGCGTTGGTCAACCCTGTAGCTGAATTAATCTCTCCATATTCGGGATGCTCAATTACAGTACCATTCAGGCAAACTTTTTCTTAAACGCCCTTCACTT[G]TTCTTTTAA
WI-19066g	184	C T ---	---	TGACAAGGGAGAGAAAGGGAATTTCTACTCATTTGCAAGGAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTTAGCCAGTCCCAATCTCTACGAGGAACCTGGCATATGTTCTTGCGTTGGTCAACCCTGTAGCTGAATTAATCTCTCCATATTCJ/JGGATGCTCAATTACAGTACCATTGCAGGCAAACTTTTTCTTAAACGCCCTTCACTAGTTTCTTTTAA
WI-19066f	148	T C ---	---	TGACAAGGGAGAGAAAGGGAATTTCTACTCATTTGCAAGGAATCCTCACITTAAGCTTCAGTGAGCCACAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTTAGCCAGTCCCAATCTCTACGAGGAACCTGGCATATGTTCTTGCGT/JC/JGGTCAACCCTGTAGCTGAATTAATCTCTCCATATTCGGGATGCTCAATTACAGTACCATTGCAGGCAAACTTTTTCTTAAACGCCCTTCACTAGTTTCTTTTAA

WI-19066e	147	G C ---	---	TGACAAGGGAGAGAGAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTAGCCAGTCCAAATCTCTACGAGGAACCTGG CATATGTTCTTGCG/CJTGGTCACCCCTGTAGCTGAATTAATCTCTCCATAATCCGGATGCTCAATTAC AGTACCATTGCAGGCAAACTTTTCTTAAAGCCCTTCACTAGTTCTTTTA
WI-19066c	100	G A ---	---	TGACAAGGGAGAGAGAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTAGCCAGTCCAAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCCTGTAGCTGAATTAATCTCTCCATAATCCGGATGCTCAATTAC AGTACCATTGCAGGCAAACTTTTCTTAAAGCCCTTCACTAGTTCTTTTA
WI-19066b	87	C T ---	---	TGACAAGGGAGAGAGAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTAGCCAGTCCAAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCCTGTAGCTGAATTAATCTCTCCATAATCCGGATGCTCAATTAC AGTACCATTGCAGGCAAACTTTTCTTAAAGCCCTTCACTAGTTCTTTTA
WI-19066a	72	C T ---	---	TGACAAGGGAGAGAGAGGAAATTTCTACTCATTGCAAGGAAATCCTCACTTAAGCTTCAGTGAGCCAC AAGCACTTAAACCCCATGAACCTTCAGCTGATCGTCCCTAGCCAGTCCAAATCTCTACGAGGAAC TGGCATAATGTTCTTGCGTTGGTCACCCCTGTAGCTGAATTAATCTCTCCATAATCCGGATGCTCAATTAC AGTACCATTGCAGGCAAACTTTTCTTAAAGCCCTTCACTAGTTCTTTTA
WI-20660	105	G C ---	---	TTTACAGCGAGTTTTCCGCTCAATAAGTATGAATCTAAATAGATTAGGGTGAAGAAAGAAATGTG TGCTAAATAAATCTCCCTTTTGAATGATATTTGTC/GJTAAATAAGGGAAGCAATTAATATTA CAGACATAATTTACAAGGTTCTGAACATGAGTGATCCACTACTGTTTCTGTACAAGATAGAACAAA AAGCTATCCACCCCGCCCCCAAAATACTGTTTAAACAACACTATGTTTTAAGA CTGCTGOCAGCTTCTCTTTGGCCCTGCTCCAGATGGGGTCTCTGCGAGCCCTCCCTCAGTCTTCC TCCACCCGCTCTTCTTCCAGCCCTGCCTGCATGTCACCCCTTGGTTC/GJTTCGCTCCATCGGC TTGAAAGCTCTGAA
WI-18768	120	C T ---	---	TTCCCCAGGGTTCTGTATTGCAGCTAAGCTCAAATGTT/GJTATTTAACTTCTAGTTGCTCTTGTCTTG GTCCTTCTTCCAATGATGCTTACTACAGAAAGCAAATCAGACACAAATAGAGAAGCCCTTTTCCATAAA GTGTAATTTTAAATGGCTGCAAAACCGGCAACCTGTAACCTGCCCTTTTAAATGGCATGACAAGGTGTGC AGTGGCCCCATCCAGCATGTGTGTCTCTATCTTGCATCTACCTGCTCC
WI-19087	37	A G ---	---	GAAAGCCAGAGATTAGCCCCGCTATCCGCATCTGTCAACCCAGGACAGAAAT/GCATGGACAAAGGGA TGAGCTTTACAAAGATGATGCACCTTGGAGATCAGAAAAATTCATATTAAGCAAAAGTGATACAAACA CAGTGATTGGGAATGCCT
WI-18790	49	A T ---	---	AGGAGGCTGTTCCAGGAGTCTGCCAGCAGGCTCTG/AGTGGCCAAAGCCAGACACTACCCACCTT CCCCAGTGGCCCCGTGGATCCTGGTCTTAGGCTGGACACAGGATTGAGAAAGACACAGGCTGCACA GAAAGAGCCAGATGGACCTGAGTGTGGTGCACAGCCCCCTACACTCAAGGCTGAGAGGCCCTCAGGAA AGTCA
WI-18987	35	G A ---	---	

[illegible]

WI-19236	54	G A ---	---	TACACAGAGGTCGCACCTGGACTCTGAGGTTGGGTGTGGAAGGGGAAAGG[A/G]ATGGAGAC CTGCTCCCAGCTCTTCTGTAGCCGGTTTACATGGGAACAGGGTTAACATCTGTGTAGGGAGGT CACCTTACCCCTTTTCATAGGGAAGAGTGTACACTCCTGGCTATCTCAGGGGAATGGGGAAAG AATCTTCAAGGGCAAGAACTCGTGGGAGGATGTCGTGTATGTATACT
WI-19144	222	G C ---	---	GTGCCAGTCTCCAGAAAGCAAGGACTGCCCTTCATTAGCCCTGCTGACCTCCCAGCCCTTCTAAGG CTCAGCCCCACGGGACTCTGGTGGCTGCCAGCTTGTGAGCTATCTATATATTCATTTCATAGCCAA ACAGGAGACCCCTTTCAGGACTTGCACACAGGAGGCTGTAGCCAGGAAACCCCTCTCTCCCTGGT CTGGCTCTGCTGGAGCGG[G/C]TGGGAACCAACACCTTCAGTCTGGTG
WI-19139b	110	C A ---	---	CCCGTCTAAGGGAGAAAGCTAATGTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGAC GGCAGATGCCTGACAGAGAGTGGTTGGCAGACAACACTAG[C/A]ATTTACCGGGTGTGGGCAC ATGGGTGTGGCACTGGACGTGTGCAGCATGTGGCGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTGAGGCTTTGAAG
WI-19139a	66	C T ---	---	CCCGTCTAAGGGAGAAAGCTAATGTTTCCACAAGACTGAACAACGTGTATTTACACGAGGGTAGA CTGGCAGATGCCTGACAGAGAGTGGTTGGCAGACAACACTAGCATTTTCACGGGTGTGGGCAC ATGGGTGTGGCACTGGACGTGTGCAGCATGTGGCGTCTGTGTGAAGCCACCGTCTCTCTTTGG GGGGCCGCGAGATCTAGCATCTCTGAAATCCTGGCTGTGAGGCTTTGAAG
WI-18910	112	T C ---	---	GGCTGGGACCTTTAGGAAAGTGAATGCAGGTGAGAAGAACTAAACATGAAGGAAAGGGTGCCT CATCCAGCAACCTGTCTTGTGGGTGATGATCACTGTGCTGCTT[G/C]GGCTCATGGCAGAGCATT CAGTGCCACGGTTTAGG
WI-19235	173	A G ---	---	TCAGGAGGTGGAGTTCGTGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGTATTTGAAGAAACA CGAATGTCTCTGTAGCTTCTCTCACTGCCCAAGTATGCTCTGTATTTATCAGCGATGCCCTCTGT CACTCATGCCCTGCCTAATGTTTCACAATGGTGA[A/G]GCTTCATGTAATATGATCAGGACCCACC TCCAGTCTTCTGAAAGTGTGACAGTGTCCAGCCGGTTCTGCAGCACTA
WI-19222	179	C T ---	---	CGTTTCCCTAACTACCCAGTTTAGTTTGGGATGATTTGATTTCTGTTGTGATCCCATTTCTAA CTTGGAAATTGTAGCCCTATGTTTCTGTAGGTAGTGTGTGGGTTTTCCTCCCAACAGGAAGT GGCAGCATCCCTCTCTCCCTAAAGGGACTCTGCGGAAC[C/T]TTTCACACCTCTTTCTCAGGGAC GGGGCAGGTGTGTGTGTACACTGACGTGTCCAGAGCAGCACTTT
WI-19117	134	A G ---	---	AAATAATGCAACGCAGGAGGAGAAAGAAATGCACTAAGACAAGAACATTTCTCTCATAGAACATTG ATCTGTTTACAGGAAACAAACCTTGCCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAA A[A/G]TAGCTATTTTTCCTAAGACATTTTTCATTCATGAATATTTCAAGTTTTCATACTGTACA CATTTCTAAACACATGATACCCAGCAGCACTGAAATGAATGCCGAATTG

WI-19134c	263 C T ---	---	CTCCTGTTCTGTCACACGAGGGTGACACAGCCCCCTTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCATCCACAGAGGGGTGCAGCCAGGGTCTCAG GCCCTTCAGAGCCAGGGCTAGAGGATGCACGGTGGCTAGAGCCAGCTGCACATATCCTTTTCAGAGCAC TTCATCCACTTGTCTCCTCCCTACCCCTCGGCACCCCTGGGTGGGAAGGG
WI-19134a	162 T C ---	---	CTCCTGTTCTGTCACACGAGGGTGACACAGCCCCCTTTTCACACTCTGTCTCCTCTATCTTCTCTGGGTAGA TGCCCTGGTGTAGGGCTGAGTACTGAATGGTCTTCATCCACAGAGGGGTGCAGCCAGGGTCTCAG GCCCTTCAGAGCCAGGGCTAGAGGATTCAGACGGTGGCTAGAGCCAGCTGCACATATCCTTTTCAGAG CACTTCATCCACTTGTCTCCTCCCTACCCCTCGGCACCCCTGGGTGGGA
WI-19224	112 C T ---	---	GGTTTACCAGTCTTTOCCAGGGAACTCCGATGAAGTGTCCAAACAAATGAGCGAGTGAACCAAGA AGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTCTCAGGATGCCCTGTGAAGA AAGATCCCTGGATCCAGGATGATTATAGGACAAAGTTGTTCATAATCCAGCAGGCCAGAACACTTCC AGGGAACCTCATTCAGGAGGTGAATAATGATGGATGACTCTCCAAAGATGAATA
WI-19201	179 T C ---	---	GCAGCTCTAAGGACCACCTGGCCATTAGCTCTTGCTTTTGATGGCATCTCTTCCACCTTGTCTCTC CTTTGCTCTCTGTGTAGTGGCAGGTATGACAACTCATCCAGTGGAAACACAGCCCTACACTGCC CTTCGCCCCACACTTGGCTGCAGGTGCACCCGAAAGGACTTCGTGGGGGATAAAATTCAAAAA GTGTGATGTGCTGCTCAGAAAGTTCAGACTCCATGCTGCGCTTGGCCTCAA
WI-19034	45 T C ---	---	GAAATGGTCCACTCAGAGCTACCCGGTGTAGGAGTATGGGGAATTCJACTTCTATTACATTAAAG GCAACAGCAGTTAGTAAAAAGGTTTTACAGTGTCTGCTGTGTGAAAGTGCAATATAAAATTTTGTG CTAGCCCATGATCAATCGACTTCTATTGTTGATATACACTTCAGCATTTAAGTTCTGTCGAATTGAC ATTGTACTTTATAAACTTAGTCCCTAAGTCTTCTTATGCTGTGCTATATA
WI-19102	25 C G ---	---	TGTTCTGAGTCACGCTGAGGAGAGTC/GTCTCACTCAGGAGTTCATGCTGAGATCATGAGTTCA TGCGACGTATATTTCTTTTGAACAGAAATGAAGCAGAGGAACTCTTAATACTTAAATCGTTCT TGATTAGTATCGTGAGTTTGAAGTCTAGAACTCCTGTAAGTTTGAACCTCAAGGGAGAAGGTAT AGTGAATGAGTGTGAGCATCGGGCTTTCAGTCCCATAGAACAGAAATGGG
WI-18548b	65 A G ---	---	AAAGGAGGGAGAATCTTTTTACATAAAATGCCCTTGATCATCTCCAGTCCCTCACTGGGGGA/JA G/JAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
WI-18548a	62 G A ---	---	AAAGGAGGGAGAATCTTTTTACATAAAATGCCCTTGATCATCTCCAGTCCCTCACTGGGG[G/AJA AAAAAAGCATCTNTCAAGTCTTTGTCCAACTTTGGCTGC
WI-18700	97 T C ---	---	GGCAGCAGCTTTTTTAATTTGAACACTTCTTCTTGAGGACACACCTTCAGTACAGTTAACAAATGGT TACACCTGAAATCTGCTGAGAGCAGAGCTTC/JAAGATCCACAATTCGAAAGGCCACTGCTGGCTCA CTTCTCTACA
WI-18501	121 C T ---	---	CAGAGGGAAAAAGTTTATTGAGTCAGCCACAGAGGAACAGAGAAACAGACACAAAGGAGGTTCTGTGT GCATGGAGGAAATCAGGGCCGNACAGCTGAACCTGCCAGGACAGAGGGGGCGCTGGACAGCA GCGCATGCCACAAACATTCA

WI-18017	87 C A ---			ACAAAAGAAAATGGAAATAGGTTTGGGAAAACCTTATCTGCATGTACAAAAGTAATCCCCGTAGATAA GGAGAGGCAACCCNCGGAACA[C/A]ACTGCTGGATAAATCGTTCAATAAAATTATATCTCTTTGCAT CAGAGCTGGTGAAAATCAT
WI-18148b	101 A G ---			TTATTGCGTTCCCTTCGATAAACCTCTCTTTGGGACTATGAGATCATCACCAGATGTGAAAACGAAAGCA GTGATTTCAGAAACCNTCGATTCTGAATATCCC[A/G]TGGCGGCATATGCAAAAGGAATGA
WI-18254	64 T C ---			TATACGGATCATGTATTTGTGTGACCAACCCTACCACAGTCAATTTGTAGAGCAGTTAAATCAGT[C]GCCAAAATTCCTCTTGCCTTCTGTTAGTCAGTCCCTCTCCCAACCCAGGNACTTGGCAACCTGTTT TCCGTTCTAGACATTT
WI-18265b	117 C A ---			CAAATGGGTGGACTGAGTGATAAAACGCATATTGAGAACAGACGGCCTCTGGCCNCTCTGCGTCC AAGGCTGTAAAGGTCACAGGATTGCTGCTAAAGTGAGCCATGAACCTGGCTG[C/A]GTTTTCAACCTTC CTGGGTGGTTCTTCAG
WI-18295	40 C T ---			ACCACACATTTGTTGAGAGCCTATTGTGGGAGAACAAACAG[C/T]TTGGGAAGTAAAGGTTGATTACT TCCTCTCAAGGATGATATGTTTAATGAATCCCTTTNCCITTAGCTTCATTTCTATAATGCCAAA
WI-18459b	64 T C ---			GGGCAAGAGACAGAGATTTAATTGAATAAAACTCCAGGCTGTGACACGGGTGGGAGACACAAA[T/ C]GAGTAAATTAACAACATAATATTTANATGACAGTGCAATTAATAACGTCCTGGGTAAGCCAGAG GGGAGGAGGGCGTCTTCA
WI-22585	56 A G ---			TTTATTTTAAATTTGCATCCTGAGATAATAAAAATTTATCTGACAAGTGAAACAATG[A/G]CAGAAGC AGCAGTGAAGTTTCGGAGAGGCAGGTATCCTTCATTTTGGCACAGCTGTATATAGATTGA
WI-21155	36 A G ---			GGGCTGTGGAGTAACAGAACTTGATGGAAAAATTGGC[A/G]TCTGTGTAGAATGATTTCTAAAGCTTTC AGACAAATGGCAGA
STS-F02766b	88 G A ---			GCCTTTGCTCTTTGCTGCTCAGAGGCCTCAGATGGATACGCAGCACTTCCTTTTGAACCTTTTAT TTTCTGGCAGGAAGA[A/G]GATCCAGCAGTGAGATCAGGCAGGTTCTGTGTGCACAGACAG GGAAACAGGC
WI-19888a	98 C T ---			GGCAGGATTAACCCATAACAGAGAAATAACTCCTTATTGGAAACAAGGTTTATTTTATATGATGATG AAAATATTTTGGAACTAGAAAGTAGCAGTGA[C/T]TGGACAACGTTGTAAAGATATTAATGCCCAC GAACTGTTCAATTAATGGTAAATTTTCATGTTATGTGATTTTCCCTCAATTAAGAATGGAACATGT CTTATAATTGTAATACATGAGANCAATTTATGTTGGAAGTGAACACAAG
WI-21485	82 C T ---			TGAGACCATCCTCCTCAACAAAGAATCAGTCAGTTGAGCACCTAATTTTCCACACTGAAGTCTACG CAATTTTCATGCAGA[C/T]TGTGCACACAGTACAGTGCAAAATCCAGAGGGCAACACATTGTAAAT CATATCATCCGTTTCCAAA
WI-20601a	125 T C ---			TCAGAAATGCTTTCCTGCCCCAACCAAGAAATTTAATGAATGCNCTTACAATTTGAGATGACTT GAAGTTAAAGAAAGGTACCTCCTTGGAGGTTGCATGACAGGATTAGTCTCTCTGTTT[C]CTTGGT GCAAGTTTGAACCAGTATTATGTACCATTCATCAGAGGCATCTGTTCCCTGTCAGATCCCCACTAG

WI-20561b	94 T C ---	---	CGTTGCTATTAAAGATGGCTGTTTATAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTATTG TACITTCAGATGAAAAATCCTTACATGTC/GGGAATCAATGTCITTTTAAATTTTCAGATAAAGAATTT NCAITTTGAGGAGACATACAATTGTAA
WI-20561a	25 A G ---	---	CGTTGCTATTAAAGATGGCTGTTT[A/G]TAAGTATAAAGCAGTTTGAGCAACACTGATTGTGCATTAA TTGTACTTCAGATGAAAAATCCTTACATGTGGAATCAATGTCITTTTAAATTTTCAGATAAAGAATTT NCAITTTGAGGAGACATACAATTGTAA
WI-20116e	69 T A ---	---	GCTTTCATTTCTGTCACCCACCTGTCACCCAGTTATGTTGGCCTTCAATATATGGCGT[A/T]AGAA A[T/A]ATAAATCTATATATATTTATACACACAACACATTTCTACCAGCACGTGGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAATGNGCACAGGTTTGTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI-20116c	59 T A ---	---	GCTTTCATTTCTGTCACCCACCTGTCACCCAGTTATGTTGGCCTTCAATATATGGCGT[A/T]AGAA CATATATAAATCTATATATATTTATACACACAACACATTTCTACCAGCACGTGGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAATGNGCACAGGTTTGTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI-20116a	22 C G ---	---	GCTTTCATTTCTGTCACCCACCTGTCACCCAGTTATGTTGGCCTTCAATATATGGCGTTAGAA CATATATAAATCTATATATATTTATACACACAACACATTTCTACCAGCACGTGGAAGACACAGA CTAGGCTTTACTAGGCTTGGGGCCTCTCCCATGCCACTTAAATGNGCACAGGTTTGTCTATGCAA GAATTTCAACAGAGTTGGTCTGGCCATCAGTCTGCAATTTCCCGAGATAA
WI-20466b	133 G A ---	---	AAAGATTGCGAGTCCCTGGGACACAGTTTGGAAAAACACTATTTATAAGGTTGCACATATTACAAACAG NTCCCAAATGGTGAAACTGGTATTTCTAAGATGAAAGCTTAATGAACATAATGAAGTGAATAAACGC G[A/T]GTGAACATAATGTTTAAAGTTAGAGCTTGCTCAAGTCAGTACAGCTCTTAAGATAATAAAT ACAGTAACACTACTTTTATTTCTTTGCTCTTTTATCCCTTTCAGGTTTCGATT
WI-21444	39 A G ---	---	CTGGCAGCAAGTAACCATTTTAAAGAAATACTCTCAAC[A/G]AGTTCTTTTATGGGGTATTTCA GTTGTTAACAAAGTTAAATACTTATTGGAACATACTTTGTATTTTTCGAGGAAGAAGAAATCT ATAAGATTGACTTACTCATTTGTTGACTGGTTTTTTGAGGCTTACTGGGG
WI-21034b	148 T C ---	---	AGAATGGACAATGATGCAGATGATTGTGAGCATTTTGATGAGAAAGTGGTATTAGAAGGATACAG CATAAATTTAATTGTAACATGCTTATCTAGCTAACCTAATCTGTTTCTGTAGAATTACTGGTCATGG GAGATTGGATAGAT[C/G]GCTAACCTATCTCAATTTTAAGTAATGTAGCAA
WI-22091c	205 G A ---	---	GGCGTGATTTGATGCAATGTCCAACCCAGTCAAGCTATCATTTGAATCCAAATATTTCCAGTAGAG ACATGCAGAGCAATGCAATGTAACATACACAGCATATTACCTCCCCCTTAAAGTACTCATAATTC ATTACTTGTGCTGTAGCTTTTAAAGGTTTAAAGTGTAGCATTAAGTGTATTACTTGAGGGCA ACA[G/A]AATTACGGCTTAACAACACACACTAAATCATGAGGCTCAGGGATTG

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WI- 21805a	45 A T ---			CAACTGCTCTGAGGCTCTTCACTAGCTGATTATAATCCTATATTAT/AAAAAAAAAATCTATAGTCTG CAGTCTTTTGACATACTTCTCAAGGGTGGATATGTTGGGAATGCAGACTCCATCAATATGTGTGGTT TTGTTTGTCTTTTGTAGCTTAAGTCTGTTTGNAAATCCAGAGGAATATGATTGAGGCCAGAGTTA CATTGGTTCATAAAATCGAACAGTTGAAGGCTGTTTTTGTAAATGCTG
WI- 21778b	155 T C ---			AAAAATCCATAATTAATGAACCCAGTTACAGAGAAAGTTCTGTAACITTTTTTATTGAATTAATTGAC TCTGCCCGCTGTCTGCTGCTTCAACTCCAGTCTGTAATGCCCTGTGTAGGTGGGTCCCCAG GTCTGGGCTTCTGAGGTCTT/CJGGTAGAAGGAGGGCAGGTGGT
WI-20907	241 A C ---			TGAGTCAGTGGTCAGATGGGGCAGTTGCGCTCAGCTGCAGTCCCTGACTCCCGGAACACACTGTGCCTCT CAATGATCTAGAGCTCATCCTTGGCGTACATGAGGGCAGTTGTTCTTAGTACCCATTTAGCCG ATGGCTCTCAAGCCAATTCACACTGGGAAACACACCCCTCACAAGATGCCTATCCATTTGAGTTC ATACAGGTTTTAGTAGCTAGAACTAAAAACATTTTTA/CJAAATTATCTA
WI- 21449b	222 C T ---			AACAGCAGCAGTCAC TTCAAAAATGCAAAAAAATTACAAATTTTAGAATAAAATTATAATGTTTA TAATGCGGGTCAGAAGANTTGAAGGTACAACAGATCAATACGACGACTGGAGGGCTGGAG AAGCCAAAGGCCACTGGTCAGGGGTCCAAGCTGACAAGAGTCCCAACCTGAGAGGTCTCCACACCC AAATCATACCCCTCAGCTTCCCA/CJTJGACAGAGCCAGTGTCTCTGGGTTAG
WI- 21558a	157 G A ---			GCTTACAAGGAAGCCTGTGGACAGGGCAGTGGTGGAAACGACTCCAGCTGGAAAAACCTGCCCTC CCATCCCTTACGCTTCTTGGCTTCCGGCTGATTTCTTCGACAGCAGTCTGGCCAGGGCAAGG AGCTGTGGTGGGGGCGATG/AJAGCCAGGACTCCCTCCACACAGATGAGGCCCTAGGGCTGCAA AAGGGCCCGTGAAGAGAGATGTGGTCAAGGCTTTATGGGTCTCTCCACC
WI- 22187b	178 G A ---			TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGCGCTGGCTAGCAGCTCATGGNGACCA GTCCTGGGCTGACCAATGGGTGATTACATTTAAAAACCAACCAAAACAAATAACCAAGA ACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTG/AJAAATTTTCATGAAAAATTTCC CCTAAACCATACAAAAACTGTCTCTCTACCCCAAAAGTGTGGAGGAAAG
WI- 22187a	110 C A ---			TTTGCTGTGGAATCCATGAGAGCCGGAAGCATCGTTGGGCGCTGGCTAGCAGCTCATGGNGACCA GTCCTGGGCTGACCAATGGGTGATTACATTTAAAAACCAAA/CJ/CAAAACAAAAACAAATAACCA AGAACAGATCACTTGCCATGGACATCAGTAATCTATTGGTAATGGTGGAAATTTTCATGAAAAATTTCC CCTAAACCATACAAAAACTGTCTCTCTACCCCAAAAGTGTGGAGGAAAG
WI- 21609b	146 G A ---			TCATGAATATGCAGCTCCATAATCTTCTCCCTTGTAAACAAACGTGCAGTCCGTTTCAAGCTGTAAA AACAAGCCCCAAACCAAGACATCAAGAGGCAAGAGCAGTGGCAGTGAGAGGGAGCCTGTAAAG GATGTTTCAAG/GAJAGGGTCCCGGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGGCAGAGGCTGAGACANTGGCCAAAGAGGAGTTGGAG

WI-21609a	42 C T ---	---	TCATGAATATGCAGCCTCCATAATCTTCTCCCTGTGAACAAAC/TTGTGCAGTCCGTTCAAGCTGT AAAAAAGCCCAAAACCAAGACATCACAAGAGGCAAGAGCAGTGGCAGTGAGAAGGAGCCTGTGTA AAGGATGTTTCAAAGGAGGTTCCCGCTATGTGGCCACTGGATGTAGGCAGTGAGCTGAGTCCAGGC TTTCGGTCTGGGAAGTGCAAGAGGCTGAGACANTGGCCAAAGAGAGTTGGAG
WI-22512a	104 T G ---	---	ACATTCGAGCCAGTTTTTCCATATTGCTCCACTGCCTAAATCCCTTGGTCCCTCCCTAGGGCTTCA GGTAAGCCCTGACATCATGGTCTTTGTGATCTGT/GJACCTCACCCATGCTCCACCTNAGTTCC CACATTTCCCCACGCTAAGGGCAGGCAGCTACACTTGACTGCA
WI-21028b	139 A G ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCAACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGGATATGTGACAGGG TTTC/GJGTGCACTGGTACAGAACAACAACAGGGAGTTTCACAAATTTTTTATACAAATGCTTGGGAAT CTACGG
WI-21028a	121 A C ---	---	ATCGGCAAGCTACAGCCTTAAATCTGAGCTCCTCAAGTGCAACAATTTCTGTCCCTTTTAAGGGCTCA CAACACTAAAGATTTACATGAAGGGTCTGTGATTGATTGAGCAATCTAGGGGATATGTGACAG GGTTCATGCACTGGTACAGAACAACAACAGGGAGTTTCACAAATTTTTTATACAAATGCTTGGGAATC TACGG
WI-18829d	58 A G ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGNAATAACTTATGTGACTTCTTG/GJTTC TCATACAAGACAAGCACAAAAAGCACCCACCTCTGAGGAACATTTGGACCATGCAACCTTGAAA AA
WI-18829b	35 T A ---	---	ACAACATGCCTGTTACAGGGGGGAAAAATCCTAGGTT/AJAATAACTTATGTGACTTCTTGATTTCA TCATACAAGACAAGCACAAAAAGCACCCACCTCTGAGGAACATTTGGACCATGCAACCTTGAAA AA
WI-20964	87 G A ---	---	AGCCAACTCAAGGCCAAAAAATTTCTTAATATAGTTATTATGCGAGGGGAGGGGAGCAAGGA GCACAGGTAGTCCACAGAATA/GA/GACACAAGAAACCTCAAGCTGTGAGGTCAATTTGTAAATTA AAGAATACTAAGATTAGATGAACAACAACACTCAGAAATACTCTAGGAGAGCTGAAAAAAGAGGAAC AGATGTTAACAAAAACAATAAAGGCTGCTGGGGAACCTGAGTCCATGTTAAGCTTG
WI-20059a	59 T A ---	---	CTCTGAACATAAGGGCCGTGAAGGCATGATTGGTTTTGGCACACAGAGTGGATAACCA/T/AJACAT TGGCTGGAATGAGGTGGTCAGGAAATAAANTGCACAAATCTAACACCATGTTGAAATCATGTCTGA GTTCTGGAGAAAGTTAAGTGTAAATAATTACAAAGACTGACATGCAACTCTTTACCTTACATTATT CATCTACAGACTATTTTCTCCCTTAGGAGATGAGGAGTATGGCCCTTAGGT
WI-22130b	165 C T ---	---	TGTTTTGAGGGCTGTAGCAGACTACATAATGAGCGGTGAAGCGGCTGCCCTTCCCTCTCTCTGACAC CAGCAAGGGGAGGCACCATCACCGGCCCTGCCCATCATGCATCCAATGATTACTAGCACTAGGAA GCCAACGGAANAGGACCCCGCGCTTGTCT/GJGTGTTTAAATCCAGGTTAAGCTATACACGTTTAA ATACATGTCGAGGTTACATGGTCTCATGCAGTCCCTGTGATGGGAATGAC

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WI-21661	117	G C ---	---	GCTTAGTCTCCACCCCTTTAAATGTACTCTAGGTACAAAATAAACATTATACACATATAAGATCAGT CTTTCCAACTTTAGAAATGTATAAATAAGAAATGACATTTTAAAATAAAAATAG[C]TTTAGTCACAGTC ACACAAAACACTACCTTCTAAGGAAAACCTGTCCAGTGAAGCCGTTAAATTTGTGCTTTCAGCTATGAAG GA
WI-21980a	25	T C ---	---	TCAGTTTAAACACACATTCATCAAGGA[T/C]AGATTAAATTAATGTCAAGGTGAGCATAAAAGGGAGATT TAAACCAGAAATGTGTTTCTGGGAACCAAGTTTCAAGTGACTCAGGATAAGTTTATTAAATTCAT GGTGAAGCCCTGGGATAAAG
WI-21636	71	A G ---	---	TGCTTGATTAATGTGGTGTACATTATCCTATTTCACAGATGGAACAGAAAATACCAGCTTTTT AAA[A/G]TAGCAATATCTATTATATAAATAATTGAAATAACACCATAATAATATCACTAAGGA AGTAATCTAATTGTGTTGATTTGCAGAGGGGAGAAAACATTACCTCTAGAGCTGAGGCTATTGTGC TCATGCAAACTCCAATCTGAAGGTGTAGAACTAGGAAGGGACAGGGATTTC
WI-22457a	112	G A ---	---	TTGCTATAATTTCCTTAAAATGCAAAAGAGTACATCACAGCAGAGTATAGCCAATCACTCATTAGA CAACAGTAACATATACTGGACACGGTTTCAGGCATGAAGGATACA[G/A]CAGTTAATTAACATAAG GAACAGAGTCCCTGCTGCTGCTGCTACCC[C/T]GATGATGCTTCTCTGCAATGGACTATTTGCC AAACCCACTGAACCTACCCAGCTGAAAACACTGAAGGATACTGGGTAAGGA
WI-21524b	97	C T ---	---	GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAATAGCCTGATGACGACCTTCGCGTCATACTAT AATGGTTAATAACAGCATTCCTGTCTACCC[C/T]GATGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTGCACTATGACAAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAGTTACTTCTTCCAGGGGATG
WI-21524a	35	A C ---	---	GCCGTGAGGGTTAGCGTATAATGAAAAGGTGTAAT[A/C]GCCTGATGACGACCTTCGCGTCATACT TATAATGGTTAATAACAGCATTCCTGTCTACCCCGATGATGCTTCTCTGCAATGGACTATTTGCC CAGTTGCAACAGGGCTAAGATTGTGCACTATGACAAATGAGTTGTTGATTGTTGGAGTTGCGGTGTC CTGTCAGAAAGATTCTTGACTTTCTCCAAGTTACTTCTTCCAGGGGATG
WI-22652a	32	G T ---	---	TTACCTTCCAAACAGGCCACTTTGGAGAAAG[G/T]AAGAGAAATGCTATTAAATCAATAAGCCAAGAC AATAGGGAATACCTGGGTAGACCAAGATGGGAGTCAACCATACCATCATTCCTGCCACAGAACC TTTGACATGCTGCCCTCCCTACTCCGCACTCACCTGTCTAATTGGGACCTGAAGCTTCAGCATCCCTT CTTTAGGG
WI-21703d	197	A G ---	---	CAACAGGCTCATGGAACAGAGCCCTAGGGATCCAGGAGATAGGAGGTGGTGGTGGGAGGGCTC TGATCCCCCTTCTCAGCAGCAGCACCATCTTCAACCCTCCTGGGAAAGCAGCATTTGGAGCCTACACCA CTTGCTTTCTCACCAGGGTAAGAAATGCAGGTTATTTGCAGAGGGGAGTGAGTCTGGGAA[A/G]G TGGCAGAGCACAGCTAGGGGCAAGGACTTAAGGGAACCTTGTGGGGGAAGAG

WI- 21703c	134	A G ---	---	CAACAGGCTCATGGAACAGAGCCTAGGGATCCAGGAGCATAGGAGGTGGTGGCTGGGCAGGGCTC TGATCCCTTTCTCAGCAGCAGACCATCTTACCCCTCTGGGAAGCAGCATTTGGAGCCTACACQ A/GJCTTGTCCTTTCTCACCAGGGTAAGAAATGCAGGTATTCAGAGGGGAGTGAGTCTGGGAAAG TGGCAGAGCAGCAGCTAGGGCAAGGACTTAAGGGAACCTTGTGGGGAAGAG
WI- 22663c	139	G A ---	---	CCCTTGTCAGTCTGTGCTCGGCTCTCACTGCAGTGGGAGGTGAGCGCGCTCGCTAATCTTATTC CCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTGCACGTGGTGCACCTACAG GC/GA/GAAGAGCTTCTCATTTGCTGAGGGCTTTTCTCTGAATCCGTGTTGAATGTGGGT
WI- 22663b	55	C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTC/GJCTAATCTTA TTCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTGCACGTGGTGCACCTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAATCCGTGTTGAATGTGGGT
WI- 22663a	38	C T ---	---	CCCTTGTCAGTCTGTGCTCGGCTTCTCACTGCAGTGGCAGGTGAGCCGGCGCTCGCTAATCTTA TTCCAGTCTCGGTGAACATGGGCTCAGTCTCTCCGGCTCAGTGTGGGTTGCACGTGGTGCACCTAC AGCGGAAGAGCTTCTCATTTGCTGAGGGCTTTTCTGAATCCGTGTTGAATGTGGGT
WI- 22668	99	A G ---	---	TCCTTTATCCTGCTGCTGCCTGAGTATTCTGGGAATCCTACAAGGATTGAGGGAGCCCTGGGATT CCAACTTAACAAATAGTTTCTGTAAATATT/GJTTCTAGTCCATTTAGATTGTGTAAATGATCTAA ATGNGTAACCAATTAATATCAAAAGTATAACAGCATTTAAGTCAGCTTTTCGAAGAAACTTTTATT
WI- 22631a	52	T C ---	---	AAGATATAGTGGCAGGACAAGATTGGTCACGAAATCCTGGCTCAGTTCGAT/CJAGCACCATT CAAAGTTTAGGCAAGGTATTTAACTCTCAGGCTCATTTCTCTTTGTAAATTTGTATAATGGACC TATGTACCATCATAGGGTACTTTGGACAAATCAACTGAAATTTT
WI- 20258	157	G T ---	---	AATCCACACTTTCACGGAGGGGAACAGCCTGCCATGTCTCCAGGCTCACAGCAGCGGGCTAC TCTGCTGGTGGTTTGGTGGCAGGTGGAGATGGTGACGGCGCATTTGGAACCCGTAAAGGCATGACAACG GGAGCGCGCGGGGTTCAG/GJCGGTTGACGAGGTGCATGGCTGGCAGCGCGGCTCTACAGA AGGAGGGAGCGCAATTCACAGCCTCTTGACGTAGTTTCCGGGGAAGTACC
WI- 22714	212	C A ---	---	ACTACACATATGCTGATTTCAACAGTAAATTAACATTTTACATTTGTAGAGAAAATCTAGGGTCT ACTAAATAATCTAGTACTGTTTCCACTCTCTGCTAATCTGACAGGAGTGTGTGGGAACGAAGT CTGAAAGGATTCAAAGGGGGCTAGGATTTGCCACAGATCCTGTAAAGGAAGGATGAGGTGAGCTT ACCAACCCCA/CAT/GAGTAGGGGGCCAAACATCCTTAACAAGCTAGTTGCT
WI- 22734a	44	G A ---	---	TGGGGCTACTTTAGATGGGATGGCGTCAAGGGTCTGGGAAGGCCCT/GAJCTTAGAAGACATTACCCA AATGATGAGAGGCAGCCAGTCGTGGAAGCCATAGTTGGATGGCGAGACTTTTCGGGCAGAGGAAT AGCAAGTGCAAAGGGCTGAGGGGAGAAATGAACCTGGGCTTGTCTACAGGGTGAAGGGCGCCGGT NTGGCTGAGGTTTAGTGGATG

WI-22724	117	A G ---	---	---	TGATATGATGCTGAGATTGCTTCCAAATATGCCCTAGGAAGGAAGTGTTTAGAGATATAGGA CAAATCAAGATTGTCAAAATGTATAGTAACGTGTTAAAGCTTGCTAAGGGT[A/G]GTTATTCTATTTT TGGGATATGTTTGGGAAT
WI-22750	48	G A ---	---	---	TGTAACCTGTGTTTTCTGAAAGTTGAGGGAAGCTGAGGCAGCTAAT[G/A]GGCTCATACAAAGGT TTGGAAGACCCATTCTGACTACCTAAAGGAGAGTCAGCATTCTGACCATCTGACTGTGCT
WI- 22775a	60	A G ---	---	---	TGCTGTTCTTTAGTTCATGACGTTTATCACAATGTGCTACTGTTTCCATTGTTTACATC[A/G]TAGTA GGAAGGGGAAATAAACTCCCTAAGGGCAGCAATAATTTCTGTCTTTGAATCCCTTATTGAGGCAAA TATTTGTTGAGCACCAAGGGCCAGATGGGAACTGAGGTATGTAGGTGTTGGGAGCCAGGAAAGGAAG GGT
WI-22808	143	C T ---	---	---	CTTTAGCTAATGAAACTGGCTATGTTGACTATGATAGACCAAGAAAGCTACCCAAAGTCTTGAGGGAG CCTAGTCTCTCTAAATGCAGACAATGTACCCATGACAAGGGCTACAGCTTGGCTTTAGCAACCAGGA GGATGAAGA[C/T]AGCAAACTGATTAAAGAGAGTAGGTATAAGAACCAAGGAGAGTGGGGTCCAAAT ATC
WI-21016	207	G A ---	---	---	TCTCTGTGCTTGAGCCCTCATCCACCCCTCCAAAGCCCTCATGCCACACACACCGTGTCCACATT CCCCATCCTCCCTGTCTGCTCCCATCTCAAGTCCAAATTCOAAGGCCAGAGCCCTGGCAGCTTTTCTG GGAGACAGCATGAAAGAGGAGGGAGTGAGATGGCAGAGATGGGTGGAGCCAGTGCGCTGTGGGTC CT[G/A]TTGGCGTGGTGATGTGGGGGCCAATCCTGAGGCCAGAGGTTCA
WI-21031	31	C T ---	---	---	TTGAACACCTGACCTGACCTGTGACATGTGG[C/T]CTGGTCCCATTTGTCTCCAAACGGTGGCACA TCTTCATCTTTGTTATATATCTGCAGGAACACTCAGTCTCTTCAGCAGCCGAGAAAAACACACACA
WI-21314	122	A T ---	---	---	CCATATCCAGTCTTCTTTGAAGCTTCTATTGACTTTTAGGGTTCAGTTATTATATCCTTTATCACTAT GACTTTCAATTGATTTTTTATTGTTTCTTCCATTCTCTGTCAAACCTTTCT[A/T]TTTGTATTAA ACTGTTTTCTAAACTTCACTTAATTTCTCTATCTGTATTTNCTGTAGTCCCTGAACCTCTTTTAGAGG
WI-21186	95	G A ---	---	---	AGCGAGCATCAGAAATCACCTAGAGGGTTGACTAAACACAGACTCTGGACCCCAACCCAGAGCTTCT GATTCAGTAGGCCTGAGGTGGGCTTAC[G/A]AATTAGTATTTCGAAGACCTTCCTAAGTGTTCAG ATGCTGCTGTCCCGGGGAACACACTTTGAGAACTATTGTTCTAAATGTCTCTCTCTTTCTTTTAA GGAGAGACAGGAATTCAGAGAAACTGCTAATTTAAGCATAATGTATTGAAT
WI- 21187a	94	A G ---	---	---	CCACGATAACTATAAAAGCAGAAAAATTAGCTTTGAAAAATCAAAATACATATTATTAGTAACACACATT CATTTTATAAACACACATAAAGACACC[A/G]GNTCTCAGTAATGCTCTAGTCCAGGGGTTCTCAA AGTATGGCTTCAGACAAGCCCCATTTCATCACCTAGGGGAATTCGTAATAATGCAGATTCTCAGGCC CTACCTACTGATCTACTGAATCAGAAACTCTGAGGGTGAGACCAAGCAACCTGT

WI-21190	39 T C ---	---	TTTTCCCATACCAATGCACCTGTTTGTATAACTATT[C]GTGGGTAAAGCCCTTCTTTGGAGAC CAGTGACATAGACATGATCCCATTAATTAACAAATAATTAATAATCTGTACTATTACTGC TTTAGTTATCTAGTGTTATTGAGAAAGGAGAGTCAGCATAGTTTATTTCCATGTAATAAAGCTT AACACA
WI-19937d	186 G A ---	---	ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTGAAGGAAA GAACTATTGCACAACCAACAAACATTGTACATATCTGATTAGACAAGCAAAAGCACCTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTGTTCTCCTCAGCAAGTC[G/A]TCCAAACCTTC CAAAAAGAAGCAGTCATTGAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-19937c	185 C T ---	---	ACCATGTGCATTTATTGGCATAGGAAATAGTGACCAAGAAATGCAGCANCTAAACTTGAAGGAAA GAACTATTGCACAACCAACAAACATTGTACATATCTGATTAGACAAGCAAAAGCACCTTCATGTTGTCT GTAAAGGTGTTCTATGGCAACAGTGATGACATTGGTGTGTTCTCCTCAGCAAGTC[G/T]GTCCAAACCTTC CAAAAAGAAGCAGTCATTGAAAATGCTGACTTATGCAATTCGCTCAGGAAGAA
WI-2117b	227 C T ---	---	GAAAACGGGTGCTAAACAAAGAAAAGTCTCAGATCCCACCTGAAAATCTGTTTCAGTTTCACAGGCTC TCTCCAGAAAATGCATATGTACCAATTTGCATGTACAAATTCAGAGCCCTCAAAATACATTCGGGG TCCAATCACATACCTCAGGTTCCAGACTCCTAGCTCCCAATATCTCAGTTCTGAAGANTTAGCAGT CCTCTCATTTCTACAGTCTGATTT[C/T]TCTACTGAATCTGGGTGGAG
WI-21122a	42 C T ---	---	TCACTTTGTATCATAATCCCTGTAAAAGCTAAAGTTATTCATC/T]TAAACAGGAACCTGTTTTTCC TTATTCAAATGTCACAAGCCTGACGCTTACTGTACATATTGCTAGCAGGAGACAACCTGGAAATACT AAACAATACTGGAATTCACATTACAGACAGACGAAACCAACATGGGATGCCACACACATAACTTCCT TTGTAGGTTTCACAGAGAGCCTATTTGTGGTTGCT
WI-21254	53 A G ---	---	CAGTTTGTGTACAGGAAGGGCCCATGAAATGTGGGCGGAACCTATCCACAGGAG[A/G]CAAGGAGAAG CTGTTCTCTGG
WI-21054	23 G T ---	---	AAGGAACTGCATGGGTACAAAT[G/T]TCCAATTCATCTTAAACAGGTGGGAAACGGGTCAATTCT TGGCTGCTCCAGAACAGGGCGAGTCTATGCACCTCTG
WI-21059b	181 T C ---	---	GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATCTTCCCACTGAGCCTGGCTGAA CTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCAGCTTCGTACATCTTAATTTCAAGCTGAAA AATCCTGGGAAGAGACATATCTCACTGAAGTCATTTCTCTATTCT/C]ATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTAGGGTGACTATCCTTGCTTAAT
WI-21059a	63 C T ---	---	GGGACCAGGGTAACACCATTAGCAATATCCGTTATCAGCCTTATCTTCCCACTGAGCCTGG[C/T] GAACTACAGCTGCCAGCATTTCTGGGCTTGCAATTTCCAGCTTCGTACATCTTAATTTCAAGCTG AAAAATCCTGGGAAGAGACATATCTCACTGAAGTCATTTCTCTATTCTATTGTAGCCAGGGCAAAA TGAGATTAGGGATTAGCTCAGCCAGAGTAGGGTGACTATCCTTGCTTAAT

[illegible]

WI-21627b	153 A G ---	---	GCATGAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTCCAGTATCAACTTGAGTACCTCATTTATGGATATTTATGCTAGGAATGACAA CAGTAAGGGCATTGCAAAG/GJTCCAAAGTCATCTAAATTAACCCATATTTACATAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21627a	106 A G ---	---	GCATGAAAGAACTCCAATCAGACTTTATTCAATAAAGCAGCTTTTCATGAATGCTTCAGGTCAGTG TATGATCAGCTCAGCTCCAGTATCAACTTGAGTACCTC/GJTATGGATAITTTATGCTAGGAATGA CAACAGTAAGGGCATTGCAAAATCCAAAGTCATCTAATATTAACCCATATTTACATAATTTGTAGG GACAGTATACTAATACTCTACAATAAATAAGGGTTTAAAAATGTGTGCTTA
WI-21399a	75 C T ---	---	GGATTTAGTCCCACTTGATCTCAAATTCACCTTCTTGATGTAAACAAGCTCATTCCTCTAAAGTT TCAGTTT/CJTTCACCAGTAAGGAAAGGTTGGACCAGACATGTTGGACCGTAATTTGCTTGGTAA CTGCCCTTGCAATTTGCTCTGAGGTTGTGTGTCCTAGGACTAGGTAGGATCTCTTCTTCTTCTGCC TTACCTAGGCATAGTGCCTGATAGCAGGCTGAAGCCCAATTCATCTTGT
WI-20329a	68 G A ---	---	CGATGCTGCTAAGATAGGAGGTTAATCTTTACATGGTGAGTGGTCACAGAGACAAGACATCAAT C/GAJTCTGTTAGCAGCGAGAGAGACACTTTAAGTTGCCCAAGAGTACAAATCCCATCTATGAGAC AGCAGTCTGGCTTCTTAAAAACAGTAAAAACCAATCAAAAGAAAGATTAGAGGTTTCAGACATT AGGAACAANTGTGGCCAGAGATACCACAGAGCCCTTGAAGGAAAGGCCCTCACT
WI-21249	155 T C ---	---	TTCTGGCATTCAAATGTACATGTAATCCAAATTTAACAGATCAAAATGTTACACTAAGTTTCACT TAGTATCTAAGTATCCAAATCACAATGTATCTAAGTTTCACTTTTAAAGAACATTATAAAGGTAAT AAACTCTAGGTGTACTTAT/CJATGGAAC TAGTTTATTTCCNATTTAACTACTGTTTCATTCGCTA AAGTATGTTGTCCCAATTTTCAGCTGTTTAAAGGAATTAATAAACATTGAGA
WI-21504	147 C T ---	---	TGACACAGCATCAATTTTCATGAATACCTTTGAAAGGGCCATTAGAAAAAATAAGAGCCAATTTGGGTC ATTTGAGAAACATTTTCAGACAAATTACAGTGGGGGCACGGCCGTTCCGCTCCAGCTGGGTTTCC AGATGCAACAAT/CJTGGGTTCTGGCTTCTCCACTGGTGGGATGGGATCGCGCTTCGGAGCTCT CAGGG
WI-21242	115 G A ---	---	CTGCACCAGGAGGACAGCTGCTGGCAGGGACTAATAAACCTTCCACCTGGCCATGGTGGTGGTGT CTCTATGGACCGAGGCCCTGAAACGCGGGCAGGGAGGGGAGAGAAC/GA/CACACTAGCTTGGGGGTG GGCACCAGCTTCAGACCCCTT
WI-21475c	181 A G ---	---	TAGCCCTTCTGCCAACATCTGGCAATNTGAGGCTGGGTGGACGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGTAGGTGGGCTCCAAACCCAGGCTTCTCACTTCTTACTAAGCACAG CAGTCTGAAGCTTGGGACCTGGGCAGTGGCTCTTTGGAGAAGGCA/GJ/AAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTCCCGTTCCTCCACCCCTATTTCCTCCCTGAAG

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WI-21475b	117 A T ---	---	TAGCCCTCTGCCAACATCTGGCAATNTGAGGCTGGGGTGAGCGTTGGCCTGATGTTGCCAGGAGTAG GATGCTGATGCTGCCAGAGAGTAGGTGGGCTCCAAACCCAGGCTTCTCJA/TJCTTGCTTACTAAGCA CAGCAGTCTGAAGCTTGGACCTGGGACCTGGGACGTGCGTCTTTGGAGAGGCAAAAAGCCACAGCAGCAAC ACTTAGGAGCAAGACCCCTCCCGTTCTCCACCCCTATTTCTCCCTGAAG
WI-20893d	207 A G ---	---	TGTTTGTTCCAGCACATCTCTCCAAAGGAACCCACCCAGCCCGTGTGAGGCTTGCTGCAGGG CTGTCTCGGCGTTTAAAGTGCTACTGAGGAATACAATCATTTGTACAGTAAGTTCATACCGCACTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGGNAACCTGCCATTTCTCTCTTTTACAATGCAGT TTCJA/GACATAACATTTGTAGAGTAACAACAACCAACCAAGCCTAAATG
WI-20893c	179 T C ---	---	TGTTTGTTCCAGCACATCTCTCCAAAGGAACCCACCCAGCCCGTGTGAGGCTTGCTGCAGGG CTGTCTCGGCGTTTAAAGTGCTACTGAGGAATACAATCATTTGTACAGTAAGTTCATACCGCACTCC AGCGTCAGGCCAAACCTTCCGTGGACCTGGGNAACCTGCCATTTCTCTCTTTTACAATGC AGTTTCAACATAACATTTGTAGAGTAACAACAACCAACCAAGCCTAAATG
WI-19941c	71 C G ---	---	GAGCTCAAGGGAAGACCCCTTACCCAGATAGGGACTAACTGGAGGGTGGAGGAAACAAGGTGAAA GGTATC/GJGGTCTGGTGAGACAAAGCAGGGGGCCCTGAGAACACAGAGCAAGGTGGTTTGGAG GGAGCACAGCAGGGTGCAGGAAGGGAGATGGGGGACATTTCTTATCCAGTGCATGTCCCTTAAAT AACTGGGTACAGGAGCATTTGGAAGGAGAACCAAGGACAGAACCAAGCG
WI-21552b	166 C A ---	---	TGGTACATGGACAGATGATATGTTTATGGGTTATATGAGATATTTGATACAGATACACAATGTG TAATAATTACTTCAGAGTAATGCGATCTCCTTCACCTCAAGCATTTATCCATAGTGTACAAAGAA TCCAAGTATACTCTTGATTTTAAAATGTA/CJA/AAATTAATTTATTTGAATTTAGTTACCCCA ATTGTGCTATCAAAATATCAATCTTATTCATTTCTTTGTAACATTTATTTGTA
WI-21552a	66 G A ---	---	TGGTACATGGACAGATGATATGTTTATGGGTTATATGAGATATTTGATACAGATACACAATGTG /AJTAATAATTACTTCAGAGTAATGCGATCTCCTTCACCTCAAGCATTTATCCATAGTGTACAAAG AATCCAAGTATACTCTTGATTTTAAAATGTACAATTAATTTATTTGAATTTAGTTACCCCA TTGTGCTATCAAAATATCAATCTTATTCATTTCTTTGTAACATTTATTTGTA
WI-21512	54 C G ---	---	TCCTCGTACTTCATGCTCCCTCCCTGCCCAAGAACCTTACAAAATATTTCTGT/CJTAGAGAGGGA AAGAGCTGGTGCTGCTCTGGAGGCAACGTCCAGTCCGGGAAAGGCACTCGTGGTCTGTGATCTGTC TCAGTGATGGGAGGTCTCCACTCGCCCCACAGGCGAGCCTCGGGGCCAGAGATGAGATATGCTGTAA TCCAGTACAGGGGCTGCGTGGGGTCCCAACAGCTCTCTTTGGGG
WI-21513b	192 G A ---	---	CACATAGTTTCTCAAGAGAGGATGAACCTGAAAACCTCTAAGGCAGGACAAAGCAACTTTCCATT ATTCTTAGTTTAGACCAGAACTTTTAAATTTTATATTTCTCTTTTAACTGTCAAAATACACCAATA CTTAGAGGAAATATTCACAGTATACCAAAACATTTTAAAGATAAGAGGCGAGTGTAA/GAJAGTAG TATTCTCTACATACCACAGTATACAATGATGCCTTCTCTGAGGTTTAGGAAC

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WI- 21514b	133 C T ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAGTATCTCAACATTACAAAACCCCAATCTTCAAGGAAGGAGCACATTACCATGGAGCJC /TACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAATAAATGAGG ANITTAAGGCTCAGATGGGTTAAGGGTGATTGTCAAGGGTCATAAGGAACT
WI- 21514a	100 A G ---	---	TTGAACCTCTGAAGGTGGCTTATGTCTCGACTCCTCTTCTAGGACTGGTCATGAGCTGACAAGCATAG AGGCAAGTATCTCAACATTACAAAACCCCAATCTTCAAGGAAGGAGCACATTACCATGGGA GCCACAGGACTCCAAAGGACCTCAGAAAGCATTTAGCCAAATCTCCTTATGCAGGAATAAATGAGG ANITTAAGGCTCAGATGGGTTAAGGGTGATTGTCAAGGGTCATAAGGAACT
WI-22020	27 C G ---	---	ATGAACATGTTGCAGTGGGATGAATC/GJTATCATGATGCTAAGTGAATAAGCCAGACACAAAA AATCCAAATGTATCATTTCTACCTGTATGAGGGTACTT
WI- 19576a	113 A G ---	---	TTGATCGGTTCTTAATACAGTACAATCCTTTTGTGAAACAAAAGTCACTGGCAATGATATTATTACA GATCCAAAATAGACTCAGGCTTCAGACATAAAAAATTAACATTG/GJTCTAGTTCAGTGATTAGT CACAGAANTTAACATCTGCCAGATGTACACAATTTGGTAAAAACTACAGCTTCTCTCCACGGGA G
WI- 21695a	141 A C ---	---	ATACACAGGCCACAATTGCAGGATGGAAGGCAGTGGGCACCTTGGAAAGTGAATACATGGAATA AGCAGCCTATCTCTTTACCAACCCAGAGTTCTTGGGCATGTGATGGTGGCAGACCCCTTCCAA GGGAATA/CJTACTACACTAAGCCTACACTGTACTGTGAGATCATGGTGGAAACAAGGCCACAGGC AGTGGGAGGAAATGTGATGACTTCACTGTGTTCAGANTTCTAAGGCCCAGCAT
WI- 21574a	235 C T ---	---	AAACCCAGAAATTTAGGTACTTTTGTATTATGAGGAACCTCACTATACTAGGAAGCAACTTATGAGTG TGTAATATTTGATCTAGCAGCAACTTCCACTGATCCTGGCAGGTGACAGCTCTCAGTGAACAGCGC TCATCACCTAAAGTGAGAGGCTGTCTATTCTCATTTGTAATGTCCCTCAGAGTCACTAGGGAGCCATT GGCAGGCCAGGGAACCTTACTGCCCTACTTCCJTC/JTCTGTGAGGTGGGA
WI- 21644c	151 T A ---	---	TGACTGCCAAGATTTAGGCCCCAACCTTAGGAGCAAGGGTCACTTAACTTTTCAGGAAGTCTTGGGT GTGACCCACTGCATAAATGGATTTTCCACCATANTATTTAACAGACTCAAGGTACATACAAGCTTG TTTCATAAATAAGGGA/JTTCAAATCAAGATCCATGGAATGATGCAGTTTAAACATGTGTCTCAGC TTGCCTACTGACCACCTTTCCTTTTCTAAATATGGCAACAGCACAGCAAGTC
WI- 21614b	55 G A ---	---	TGCTCTTAACCTCAAAAGTCCAAATAACATATAGACATTTTGANATAGCTATC/GAJTTTTAACA AACCTCATTTATGATCACTGTGCAATTTTCAGTCACCTAAATACGGAACCATGACTATTATAAACA TTTACTGTGTGGGTTTGTGGGACTGAACATTAAACATACGTGTATTTCTAAGGTACTAGGGAGTT GGAACAGCTACTACGGGTCAATGGTATTTTGGGCAGTTGGCTGTGTGTGGG
WI- 21615b	151 C T ---	---	GACCGAGAAAACACTGCAAGGCATATGATGTTTGTGGAAGTATCACATGACTATTTCAAGCTTATAGA GAAACTTGCAAAAAAGTACAAAGATGGCTATTTTAAATTTTACATACATTAAGATAAGGATGGACT CTTCTACTGAGTATTATC/TAGGACACAATCGACGGATGTAATCTATTTGANTTATACCATAGGCC TATCTATATTGGGCCAAAGGGAAGGTAGGATGGGTACTGTGGAAACGGA

WI-21981	61	T A	---	---	---	TGTCATCTCATTTCTGGAGAATCATAGATGTGGCAGAAATACATATTTCTGAAGAAAAAAATTTA/GJGTCTCCCTTATGGGTACTGTGATTTCAATAGGGTGGGATAAGTACATGACAACATGCATGGGATAGACACTCTGTTCTACAGATCCGTGCTTTGGGAATACAGGAACATAAAAGGATATAATGGATGGGTTATTACTTTTTACATGTGGACAATCTAGTTGTAGGCGTTTAAGGTAAATTTGG
WI-21660	120	C T	---	---	---	TCCAACTAGCCTCTCAGTATTTAGATGAGATAGAACAGATACGGTGTAAACAGCCTCTCCACTGCTTACTGTGTACCAAGAGGCGAGAAAGCAGCTACCCAAAGCCTAACCTGGCCJCTTGTCTTTTCAGGCTTCTCAGGATGCCACAGCACATACTGGGGAACCTGGGATCAGGGAGAACCCAGGGTCTGTCTTCAGGGTCCACAG
WI-19105c	211	C T	---	---	---	TGAAAGTAGCCCTCTGGACAGAAAGAATAATTTGTGGTCCATGTGGTTTGTAGTCTGTGAAGAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCTCCTTGTCTGAGTTTCCAGGGCTGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCAGTGGATCTCCCCACAATTCJCTTCCAGGGCAGGATTTCCACCCAGGGCCCCAGGGTGCCCG
WI-19105a	33	T C	---	---	---	TGAAAGTAGCCCTCTGGACAGAAAGAATAATTT/CJGTGGTCCATGTGGTTTGTAGTCTGTGAAGAAAGGACACTAAGGCACATGGCTGGTGATCTTTGCGTCATAGACACGGGTGAGCTCATGGTGAACCTCTCTGTCTGAGGTTTCCAGGGCTGGCACAGAGGTGAGGGCAGAAATNTGGGGTCCAGTGGATCTCCCCACAATTCCTCCAGGGCAGGATTTCCACCCAGGGCCCCAGGGTGCCCG
WI-21760c	81	C A	---	---	---	CAACCTAGTCACTCTACTGATGCAAAATGATTTGGAGGTGTCTTCCTAGCTTTACAATAAGNGGAGGCTCTGACTGCA/C/AJCCCTGTCTCAGTTTCAGGGCA
WI-21760a	35	A G	---	---	---	CAACCTAGTCACTCTACTGATGCAAAATGATTTGGJ/GJGGTGTCTTCCTAGCTTTACAATAAGNGGAGGGACCTCTGACTGCACCCCTGTGTCTCAGTTTCAGGGCA
WI-21569b	198	T C	---	---	---	TCTGCCATATTTGCCAGCACCACTATTACTGTATTATTTCTCTTTGAGGAAAAACCAGGNATTAAGAAATCTGGTTTGAATTTCCATGATGCCTAACTCTATGGTTAAAAATCCTTTTCCCTACCAAAAAGGAACTTCTTAATCACCAGAGAAACAGAGGGAAGACTGAGATATGTTTGAGAAATTTATCTCTACT/CJ/AGAGACAATTCATAGTTTCATAATCTTTACGGGTTGTGCTTTACTTGGGGGGC
WI-20934a	72	T G	---	---	---	CCAACATGCAACATAGTCTTCATTTCTTAAAAAGTACATAGTAAAGGTATGAAAAACATTTGTATTCAAGAGAA/TJGTCTAAGACAAATGGTCAAAATTTCAAAATGGCCTGGCAGTGTGGTAATCCAGCAGACAAACAGCATGAGAAAGGCCGGGAGACAGTAATAAATACGTGCCCATTTGCAATGAGTTACCCCAATCAGGCCCTTTACCTCCTTAAGATGGCAGATTAGAAGACCCCTNTTCCCCAGGAGA
WI-21561	55	T G	---	---	---	TTTCCATTTTATTCAGCCGGGCCATCAGAACATAGCATCTATACCTTCGAAACCTT/GJCTCTTAACCTCTCCAGGCAAGGAAAAAGTGATCATATTGAATTCCTCAGAAATGGTGGGATCTCAAGACTTTTAGAAAGTGCTATTAAAGTAAAGAGGCTTGAAATATAATGATGATAAATGGTAGCCCTTTCTGGAATAAATTTTGTGTAATCTGTTTAAAAAGATTTTTTGGATGCAATTGTGCCCA

WI-21961c	200 T G ---	---	---	AGCTTGCTTGAAATTTGGTACTTACTACCTTGCAATTCCTTATTATTATTATTACTTTTATTTTCCGTAAGTTATTTGGGTACAGGAGTATTTGGTTATATAAGTCTTTAGTGGCGATTTGTGTGTTGGTGACCCATTACCAAGGAGTATACACTGCACCATACTCGGCTTTTATCCCTCGCCCCCT/GJC
WI-21961b	73 G A ---	---	---	TCCCACTTTTCCCTCAAGTCCCAAAAGTCCATTGTATCATTCTTATGCGAGCTTGCTTGAAATTTGGTACTTACTACCTTGCAATTCCTTATTATTATTATTACTTTTATTTTCC/GAJTAAGTTATTTGGGTACAGGAGTATTTGGTTATATAAGTCTTTAGTGGCGATTTGTGTGATTTGGTGACCCATTACCAAGGAGTATACACTGCACCATACTCGGCTTTTATCCCTCGCCCCCTCTCCCACTTTTCCCTCAAGTCCCAAAAGTCCATTGTATCATTCTTATGCGAGCTTGCTTGAAATTTGGTACTTACTACCTTGCAATTCCTTATTATTATTATTACTTTTATTTTCCCACTTGCTCTTCAAGTGAAT/GJTTCCTTTCGTTCTTAAAGCCTTTTAAATGAACCTCCATTCTGTGAACTTGCTTAGTCTGTTTCTGCTTCATGCCCCCAGTCGAAATCTTTCTTCTGAGGGCGCAAGGACTGAAGTTGCTGTGAGCTGTAGGGTTCCAGCGGTAACTCAGGGTAACTCCTATCTCTTCCACCGGTAAACAGAGGGGTACATTATGGGGTCCAGGTT
WI-21956	26 T G ---	---	---	CAACATACATTATGGCTGCCTTTATTTAAGAAATGTTTACTGAGAATCTGTACTGTAAACAACATATTTTGTAGAGCATGAGTGAGAGTGTGTGTGTGTGCGCGCGCGCACGGCATGGCACTGAGGCGATTGCAATGGG/GAJAACAGGATAAAAAGGTATAAAAACCTTGTCGCGAAATCTTTGCTTATTAAACCTTGGCCCTGCTCTCACAAATGTTTCTACACTTAATTCATAAGAGAGGTAGA
WI-21930c	146 G C ---	---	---	TATAC'TGGTTTTTGGTTACATGGATGAATGTCTAATGTGAAGTCTGAGATTTTAGTGTACCCATCACTGAGTAGTGTACATTGTACCCAACTTGAGGCTTTTATCCCTTACCTACCTTCCACCCCTCCCCATTTTGAGTCT/GC/CATAGTCCATTATATCACTCTGTATGCCCTTTGCATACCCATAGCTTAACCTCCC
WI-21139a	165 T C ---	---	---	GCCTAGTGAAGAAATTCAGGACGGGTCTTCAGAGCAGAGGGCTTGGTTCAAGTCCCTGTTCTGCCACTTACTAACTGCATGACCTTGAGCAAGCCACTTAATTTCTCTGCTCCTTCTCTGTGAAATGGGTACAA
WI-20317b	217 G T ---	---	---	TGTGGGTACGCAAGTAAAGGAACTAATACAT/GC/GTACAGCACTTCAGCACAAAGCCCTGGGCAACACAGCACTGCATGGAATACACAGGTAAACATTTTAAACAGTGGGGACAAATTTTAAAGTACGTGGCCAGCTGTTGGTTGCTTGTTGATTAAGACAAATGTTAAGANTCAGGAGTACTTAAGTGTAGTGGTTACA
WI-22082e	179 G A ---	---	---	AATTTTGTTCTCTTCAGTTTTTCATTAAAGTAAATTCATAATAGATATACATATTACTGCAGATAAAACCATCATCAGAAA/GT/TATTAAATTAATGCATATTTTGAGGCTACTCTCAGGACTTGGTTGCTGCCCACTGCACATAAATGCCCCTTTTTGGTTAGTATTGGTTGTGGGTTTTCTCTTTTGCATAAGAAATATGTCCATTTAGTCCAGAGGCTCTTGCTTTATCCGGATGACGGAGG
WI-22082e	179 G A ---	---	---	GTACACGGGGCGTCCGCTCAGTCCCCCGCAAGGACGTATTC/GAJCTGAACCTGGGACGAGTCTACTCTCCCCCACAGGAGCCACGATTTCAAATCTCTTTTGCTGCAACCTCT

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WI-22082b	67 C T ---	---		CAGGACTTGGTTGCTGCTCCCAACTGCACATAAATGTCCCTTTTGGTTGAGTTATGGTTGTGTG[C /TGTTCCTTTTGCATAAGAAATATGTCATTATGTCAGAGGCTCTGCTTATCCGGATGACGG AGGTACACGGGGCTGCTGCTAGTCCCGCCGAAGGACGTATTCGCTGAACCTGGGACGAGTCTACTC CTCCCCACAGGAGGCCACGATTTCAAATCCTCTTTGCTGCAACCTCT
WI-20993	139 A G ---	---		AACACAAACTCCATGCTTCAAGATTCCACACCCAGATAGTAAAGACATATTAAATTTACAGCAAT TAAACAGAGTGAGTTTGGTACAATAACACATATAGCAATGATACAAATAGGGGAAAAACCCCTGG GCTTCTG/GJTAACAAGTGAGTATACATTAAAGACAGTATTCAGAAATGGCTTCAGGATTAATTTGA TTAATTTAGAGAGAGCCTATTTCAAGGCTTCTAGCTCATCCACACATCACCC
WI-21723b	125 A G ---	---		AAGCGATTTTATTAAATGATTGGACATACTGTAGGTCAAATAATATTTCTGAAGATAACAATTA TGGACTTTAAAGCTCGACATAAAATTAGTAGCTTCAAAAGGGTTAGTCATATTCGCCA/GJCAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGAACTCGGAAATC ATT
WI-21723a	82 G A ---	---		AAGCGATTTTATTAAATGATTGGACATACTGTAGGTCAAATAATATTTCTGAAGATAACAATTA TGGACTTTAAAGCTC/GJACATAAAATTAGTAGCTTCAAAAGGGTTAGTCATATTCGCCAACAACA GCATGATAAAATAATTCAACTATGTAGAAATATAGAACTCTAGGACTAGCTGGAACTCGGAAATC ATT
WI-22132	99 T G ---	---		CAACAGATGCTTGAGCCAAAAAGCAACATAGGCAGAAATACAATGAGAATATCTTCATGTTTC AACCTTTAATCTGACTTGCCCTTTACTATCCTTT/GJCCCATTTCTCTAATCTCTTTTGCCCTTACAA TATATTACCTTCTAGGTATCACCTCATCCTATAGGAATGCCCTTCTAGTTAATGTCTGCCCCCAACA ATACTAACCCATTGAAGGATACTATGGAAACCTTTAAATGGGACAGTGGG
WI-21006a	106 A G ---	---		TGACAGATCACACCACATTTGTTGTAACTTTTCTCCTTCAAGAGTCACCTTAGCTTAAGCCAGAA GATTCTCTTAAAGAACACATACACACATGTGCACACAC/GJAGAGGGCAAGTACAAAAATGTAACC CCACCAAAGTGATGTGAATGAAAGTGCAAAAGGCTTCATTGCAAACTCTGAGGATCATCTCT CTGCTTCAGGAAATAAACAGAAAGGTCCTAACTGCCCTAGGCCT
WI-21761b	138 C G ---	---		CTGAGGCCTGCTCTAACTTCATNTGACGGAGCGAGTTTCTGGCTTGGAAATAACTGAAAAGATTCAAT TTTCTCTTTGTGTACAAAGGATTCAAAAATATTTTCACATCTCTCTGCCAGTTAAACGTGCCGTGG CTC/GJCAATACACACCAAGCCAAAGCGTAACCTGGCTGCCTCAGGAAGGCTGGGAGGAAGTGCCAG ATGGTA
WI-21079c	166 G A ---	---		AATGAAAAATGCCACCCAGAGGTTAACAGCTTGCCATGTCACACTGTGTGCGCAAAATCAAGTTGT TTTAAATACAGGTGCGAGCTTTGATTCCTCCATGAAATTAAGCTGTGTGCTCACTGTTTACATAA CTCAGGCCACCCCTGAAATATCTGCTAGTGGG/GJAAATTTACAACCCACTGACCATCTCAGCTCAAA GCCAGATGACTATCACCTACACATCTGCCAGGGTAATAGGCAATGGGCAAT

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WI-21079a	50	G A	---			AATGAAATGCCACCCAGAGGTTAACAGCTTGCCATGCACTGTGTG[A]ICGCAAAATCAAGT TGTTTTAATACCAGTGTGCAGCTTTGATTCTCCTCATGAAATTAAGCTGTGTGCTCACTGTGTTACA TAACTCAGGCCACCCCTGAAATATCTGCTAGTGGGAAATTTACAACCCACTGACCATCTCAGCTCAA GCCAGATGACTATCACCTACACATCTGCCAGGTAATAGGCATGGGCAAT
WI-22129a	45	T G	---			TCTGTAGATTTTAGCCATGCCATATATTAACTTTAAGGAAAGT[G]TTATATAACAGTCATTGCT TGGTAGAATCCAGTCTGTCAATAGTTAGCTTAACAGTTAACTTGAAGTCTTATACCTTATATTTA AATGTTTAGCAATCTCTACTACATTTTCAAATATAAATTTGGTTGCAATTTCCAGNAAAAGGGCA TTAACCAACATGGGACTGATCCTGGGGCTTCCACCTGACTAAGGTTTTA
WI-21941	79	A G	---			TGGAGTTAAGTGGGGCTCTGCTATTTCCCCCAAGAAGGACTCGGAAGATGTTGATTCAGGGCAGAGT GAGGGCAGAC[A]GJGATGAGGCTCTCTGTAAAGTCCAACAGACGCTCACAGATGCTGGGAGGCT GGGACTGCCAGGTTGGGAGCCTCACCCAGAGAGCCTCACTGCATTGACCCACACCCACCTCACC CAGCACAGGCACACGCGAGGGCACACGACACAGNTGCACTCACCACGC
WI-18916b	42	C T	---			AATGGCATCCCTGTGATACCAAAACATCTTCAGCAGCTCAG[C/T]GGCTTCCCACCTCTTGGTACCC GGTTAACTGOCAGNGGGTGACAGTGATGCCAGGGCTCGCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI-18916a	35	G C	---			AATGGCATCCCTGTGATACCAAAACATCTTCAGCAG[C/G]CTCAGCCGGCTTCCCACCTCTTGGTACCC GGTTAACTGCCAGNGGGTGACAGTGATGCCAGGGCTCGCCACTACTGCACTGGACACAGCCTCACC AATGCCACCTTCATA
WI-19828c	200	A G	---			TTCCCTTCTCCCAAGAGTGGGCAGAAAAGCTTTGTTAACCTCCTTTTACAGATGAAGAAAAACAA GATCAGAGGTGCTAAGTGTGTAGCCTAGTGCCAGNCTTCTGGCCCAATTCGGGTCTCCCCAAG CCCATGCTTCTTCCACTTCTCACAATCTTTAGTCTTCTCTGACCCCTCACCACCCCAAAAT[A/G]CTTTTAATCTGGAAAAGAAACCCAGCTGCACACTGGGCACACTTGACCT
WI-21863b	47	C T	---			CACAAGAGTCTGTACAACCTTAGGGACACCCAGCCCTGGCCCTGCCCT[C/T]AGCTGCATGCCACCCCTC ATATCCACCCCATCCAGCCTCCTGCCCGACACCCAGGCTCCCTGCTCTGTTGAAGTATTTT CTCAAGGCAGGAATGAGTCTTGATCCAAACACAGCATCT
WI-19860	51	C G	---			TTGACCTAAAGCCTAGCATAAAATTAGCTAAGTAGAATGTTCCAAAGATG[C/G]CTGCATCAGTAT CTCCCATCCACATAATTTCTGTTGATTTTGCCATTACCCATAAATGGTGGGATCTACCTCCCCT CCTTGCAATTTGAGCTGGNCTCTGATCCTGTCTAAGGATCTGAAGCC
WI-19889b	80	C T	---			ACCCAGCTCCTTTACCCCTCTGGCTTCAGTAGGCTTTGGCTAATGGCCANTGAAACTGCAGGGCAAG AGGAGTGAGGG[C/T]TACAGCAATTTATTTCCCTCTTCACTCCCTGTTAGCTTTGGTAGTGGCTGTAT TTCTCTACTGATAGTCTCTTGCCACAGTCGTAACTATTGC

WI-19891c	172 C G ---			TGTTGGTCTGAGAAATTCACAGCTTACTACAAGGAAGCTGAGAAATTCGTTGGTGCCCCCTCCCTCCCGCGG ACTCCTCTGTCTGGGAAACGTGGCTTGNCTCCAGACAGCTGTAGATGCCAGCTCTCCTCAGCGG AGCTCCCGATCCCTCAATTTGCCATCTGTCTGACTC/C/GJGCTC/TCCCGGGCGTGGGGCGTGTCTGT CAGGCAGCGGGGGGAGGAAGGAAGGAGATCCAGGGTCTGTCTG
WI-20155a	81 C T ---			GCACCTGTAGGGGTGTAGCTTCCATGGTTCTCCAAAGCACGGGCTGTACATTACCTTAGGCTGACCAT TCCCTTGCGGGG[C/T]GCAAAACTGCTTTGAGGAAATNTCCCGAGGAGGAATAAACTAGAAAGACGC ACCTGCTATTTACCATACTATGAGAAATACAGCTAATGAAGTGGTGCGAAGCTTGGCCGTGTGA GTGCCACAGGTAAAGTCTCTCTCTGTCTCAGTCCAGAGCAGACTTCTC
WI-20270b	91 T G ---			AGCCATACAATGCATTGCAAGAAACAAAGCAGCTGTACAGGAGTGGGACGCGTCAAGTGTACAAT ACATTATGTCCAGGATAAGGAGCA/T/GJACACCAGGATTTATACAGGTGGCAGCGGCTATAGGCA CGATGATACAAAATAAAGTATATTTCCATCTATATAATACACAGCTGGGTGGGAAGGATGCT GGGTATCTTGTTCCTCCCGCAGAGGGCTGGGAGGCAGGNGGGTGGTGGAA
WI-20270a	53 G A ---			AGCCATACAATGCATTGCAAGAAACAAAGCAGCTGTACAGGAGTGGGACG[C/G]ATCAGTGATAC AATACATTATGTCCAGGATAAGGAGCATAACACAGGATTTATACAGGTGGCAGCGGCTATAGGCA CGATGATACAAAATAAAGTATATTTCCATCTATATAATACACAGCTGGGTGGGAAGGATGCT GGGTATCTTGTTCCTCCCGCAGAGGGCTGGGAGGCAGGNGGGTGGTGGAA
WI-20622	130 T C ---			CCACTTTCAATATTTACAAAATGCTCAGGAGCAATATGAAAGCTTCAACACTTTCCCTTTGTA ACTTGCTGCAATAAATGCAACTTTAACAACATACAAATTTCTCTGTATCTTAAAGTTGAAT/C] TACTAATTTTATGATGTTACTCATATTTTATTCATATACATTTTATGACATCATTTGCCAATACATA CATTATTTCTNTAACTTTATTTTACAATAAGCCCAACATCTGTCAATGCAG
WI-20768b	190 C T ---			TTCCCACTCAAAACTCCACCCCAACCTTCCTGGAAGGCAGGGCTAACAGGACCTCCTGCCTGCCTGC TCACGACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTCTGTATATCACCACCTTA CAGGAGAGGTCTATTTCTGGGCACCCAGAGNTCAGCACACATACTGCTGGGA[C/T]CAGGGACTC GTAATTCGCCCTTGGTCCAACTCTTCTATGGGGTTTAGCTGCCCTCATTC
WI-20768a	71 C T ---			TTCCCACTCAAAACTCCACCCCAACCTTCCTGGAAGGCAGGGCTAACAGGACCTCCTGCCTGCCTGC TCA[C/T]GACTGATTACTTTCAATCCAGCTGCAATGCAAACTGAAACTCATTTCTGTATATCACCACCT CTACAGGAGAGGTCTATTTCTGGGCACCCAGAGNTCAGCACACATACTGCTGGGAACAGGGACTC GTAATTCGCCCTTGGTCCAACTCTTCTATGGGGTTTAGCTGCCCTCATTC
WI-21909	153 A T ---			TGTTTGCTTTGTGCCAGGTACTCTACTGCTTTACATAAATATCTCATCTGTACATCTAACGGCAA CTAAGTATACGCTTACATCTGCTAGTGGCACCTAAAATAAGGATATTGTTGGTCATCTTTAAAGAAA TGCTTAAACATACCAAAGIATJAGTGGAAATCAATAGAATAAAATATTTAAGCTTACAAAGCGTAC GACACTAAAGTAATATAGGATACCACTAAATTTATTTCTATGTATGGAAAG

WI-22202	128	A G	---	---	---	TGTTGCTTTGGTTGTTGCTTTCTGTGAAACATATTGGAACACTTGTTTTCATAAGCTGTCTCCTGACAGT GGCACATCCCATCCATCTTCAGGCCCTTTAATAAGGTCATTATGAATCTGAATTTCTA/GJTAAAT ACTCTGGTGCAATTCATTTCATCGCAAAAGCAATGGCACAAACCCTCTTGCCTGGTGCAGCTCTCGG AGAACATCTAATATTGAGTCTAGTCTGTGCGGAACCTTCTCCAGCTCAC
WI-22189	70	C T	---	---	---	CCAAGGATGAAATTTCCACATTTATTTTNCITTTATGTGAATAGAAAATGGCAGTGAAGTGCCTATG AACTJGAGGCGAGGAATGGCATGGCGCTGCGGTACCGCTGGACGTTGTGCTTCCAAAGTACAC TATGTGTGGTGAGACAAAGGGT
WI-22283	109	T C	---	---	---	GGGAGGCATCATAGAAAAAACCCCTCAGCCAGAAAGTTAGGACATTGTGATTCTCAGCCACTAACGA GCTGTATGACCTTGGTCACTAGGCCCTCTGCAGGCTCTGGTTGT/CJTTCATTTGCAAAATAAAAACCCA GACCGGTCACTCTTCAGTTCCCTTCCAGCTCTATTATTTATGATTTGCTCTAGTCTTTATGAGCCA TGTATGATTTATCAGTCTCCCTGATGCACTCAACTCCAATGATGCAAAAG
WI-22290a	136	C T	---	---	---	GACGTACTCTGAGGGCTCTGCCAGGTGGATTAGGTGAAGAGAGGTTTATGGCCTCTAAGCAOOG GCCAGTAGTGGGAATGCCACATGCAATGGGTGAGTGGGATCTGGGGGGGTCAAGACCTTGCTTTT [C/T]TCCAATCTCTCCTTCTAGCCAGAACTTTCGAGAGCCCTTTNATTTCTCTCCCTCTATTCC CCTCCTTCCCCAAATGTGCTAAGGTCCCAATTCOCAGACCCCTCCOCAG
WI-22292	53	A G	---	---	---	CCAGTGAAGGGTTTACAGCCATAGTGAGGTTCCCCCATTTGCTCAGTACCAGA/WGJTTTGAGTAC GGTCGTTTAAAAAATACCTTATCTGACCACAGTGGAAA
WI-22387	186	C T	---	---	---	ACCTTGCACACCTGCCATCCGGTGCCATCTCCTGGCTGGCACATCTATACCCTCTGGCTCTGAAAG GCTTGTCAACCAAAATGGGCAGCTGGGCTAAGGCATATTTAAACAAAGGCTCCAAAGGACCCCTT TCACTTGGGTCTAGCATCCAGCCTCTCTCAGCAAAAGGAGGATTGTGGT[C/T]CCTTGTGTTTCTG AACAGGGCCCGGGCAGCCAGGCATGCCATCACTGCAGCACTCAACCCCT
WI-22395b	127	A G	---	---	---	GCCGTTCCAGTATTGATAATAATTTGTGTTTAAATTTCTATACAGAAATGGTCTTCTTGAATATTT GTAGGGATGGATGAATTGAAGTGAATTAAGTCAAGATAAGGGGGCAACTCTTTAAT[A/G]AAG GAAATGTTACCAAAATCCATAGTGAAGAGTAGAATATGTTCTTTAGAGTAGNTAGAAAAGTCCCCCAGG CTCCT
WI-22405	90	A C	---	---	---	TTTATGGCTCCTGAGTGCCCTTCAACCCAGCTACACTTTACCTTGTATCTATAAAAGTGTAATTTAGAGT AAATACATTGGCTGTAAGTCG[C/G]GATCAGGTGCTCTCCACCACCAAAAGCAAAACAACTGCTGA AATGTGGCAAGTTTCTCAGTG
WI-22419b	67	T C	---	---	---	CCCTTCTGGACAGTTGCTTTATGTGTTGAGACAATCAAGNCTGCCCTCCAGGCACAGCCAGTGCTT /C]CTGGATGGCATCAGCACAGGCTCCCTGCCCGGCCCTTGAAGCATGGCTGTGTCACGAT
WI-21342d	59	T C	---	---	---	ATTTTCCCTTCTGTGTTTCGTATTTCCCTTTTGTGAGTAAATNAGCAATACACTGAIT/CJTGAA ATCTGCATGATTAATAACATTAAAGTTTCAAAACACACCCCTATATCAGAGTATAAAGCAAGAG GTTGAAAAATATCCCTTAACCGAATGCAAAATTAGGTATCCCTCAAAATGACATTTCTCCTCCTAGTT T

WI-21763b	154 A G ---				CATACCCCTTTAGGTGCCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCACAGATACCTCCAAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCACT GCTCTCCACAGCTGATT[G]CAGACATTGCCTGTGCTTCTACCCACAGCAGCTGTCTAGTGCACCTT GA
WI-21763a	135 T C ---				CATACCCCTTTAGGTGCCCCACATTGATCTTAGTTAACAGTCTTGTAGTTCCTCTTTAGGCTTCAAGA TAATTGTGATTTTCATCGCACCCACAGATACCTCCAAAGTGGAGCCAGGCCTCAGACTGTTCTCAGTCACT T[C]GCTCTCCACAGCTGATTACAGACATTGCCTGTGCTTCTACCCACAGCAGCTGTCTAGTGCACCTT GA
WI-22440	64 A C ---				CAGTCCATTGAGTCCCCAGTGGGTGCATCTTCCCTTTATCTTGTCTTAAGCCACTTGGGTATACJ TCCATTCCAGCTCTGCACCTTCTCCAGTCTTCTCATGTGAGAACTGCTGGAGGGAGGCTTCTGCG AAAT
WI-22449	74 T C ---				CAATGAATGTTGTGGCATATGATTTNCCATTGTGTGACAAATTTATTAGCTGGCATCCGAATACAGTAC TTCTTTT[C]GAAAAAATACACAATGGGAAC TGACA
WI-21965a	112 A G ---				CAGGTTCCACACAGAGGCTTTATTTACGCCACTCAGGACCTGGCTTTCTGCTCCAAGGCACCTGAACA CAGTCAGGCTCTTCTAAACACTGGCAGGGACCTCCCCACAGCQ[G]CCCCACAGGGTCTCTGTT TCCCAAGTCTGATGGATTACAGCAAGACCTTACACATTACCCACTACCTGCTGGAGAGGAGGTC ATGAGGCAGCCTGTGGTGCCAGCTCAGTGTGACACACTGCCAATGTGC
WI-21687c	115 C G ---				CACCTGGCAGTTGAGTCAGATTGTAGGAAAATTAACCCAGATGGGTCTACATTTTNTTCAAGTTCA AACCACATGGTTTCTAGTCAGAAAGTCTCATGGACTTTCTTCCTAAG[C]GTGTTCTATGATCAGAC CACCTCTAAATGTGGCTTTTACCCATTACAGGCTACAGTTGAATCAGGCAGGAGCAGCTGCTGGAG AG
WI-22374a	149 T C ---				AGCTTTTACAACAAAAGCGAGGGTTTAAAGGAGCCTGAGAAGAAATTCACAACATTTGACTATACAGAG TCTTCAATTCCAAAAACAGTTAATAGTAACCTTGGTGGCACATACAACATGCATTGAATACTCTGTAT TATTCAGTAACTAAA[T/C]AGGNTCCTGCATCATTTCTTTCACA
WI-22250b	132 C T ---				ACTTGCTTCAGGCAGGCAATTTCTGGGATCTAAACTAGAAATCCTTGAAACAAATAGTACCAGCCA CTTTGAGGAATGTGCATTCAC[TG/A]TAGTGGGTTATTATGGGTCCTCTGCCTCCTGGCTGTGTTATG[C/I] GGANCCAGGAGTGGAGGAGAGCCGTGGAAATAGACAGGGGAG
WI-22250a	89 G A ---				ACTTGCTTCAGGCAGGCAATTTCTGGGATCTAAACTAGAAATCCTTGAAACAAATAGTACCAGCCA CTTTGAGGAATGTGCATTCAC[TG/A]TAGTGGGTTATTATGGGTCCTCTGCCTCCTGGCTGTGTTATG GGANCCAGGAGTGGAGGAGAGCCGTGGAAATAGACAGGGGAG
UTR-04932-2b	192 G C ---				GCAGCCATCTCTCTCCAACACCTCCAGGCCACCTGGGGCCAGAGCACCTCATGCCAGCAGCAC CTACGTGGCCCGAGTAGGACCCCGCTGGCCCGCAGGTTCTCGGGCTCTCAGGACGTCOCAGCAAGTGA GCCACAGAGGTTTGTCTGGGACTCCAGCCAGGGGATGAGGCCCGCCAGCAACCTG[G/C]JAGTGCTTC TTTGACGGGGCCCGCTGCTCAGCTGCTCTCTGGGAGGTGAGGAAGGAGGT

-276-

UFR-04932-2a	149 C T ---	---	GCAGCCATCCTCCTCTCCAAACACCTCCAGGCCACCCCTGGGGCCAGAGCACTCATGCCCCAGCAGCAC CTACGTGGCCCGAGTACGGACCCCGCTGGCCACAGTTCTCGGCTCTCAGGACGTCCAGCAAGTGGA GCCAGAGGTTTG[C]/TJTGGAATCCAGCCAGGGGATGAGGCCAGCCCCAGAACCTGGAGTGCTTC TTTGACGGGGCCGCGTGCTCAGCTGCTGGGAGGTGAGGAAGGAGGT
stFIBBb	412 G C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCACGCGCCTTGCACCTGTCTCTGGCCCTCTCTCTGATCATGCCAGG TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTCTCCAGATGCAGCCAGGAGCCTCTCTGA AGGACCATGCTGGTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stFIBBa	341 T C ---	---	GTGAGGAAGATGGACCTGGACAGACAGTCAGCTCCACACCTTGGCTGAGCAGCTGTGATTGTGCCA CGGAGCATGAGCCCTTTCCACGCGCCTTGCACCTGTCTCTGGCCCTCTCTCTGATCATGCCAGG TTTGACCAAGCTCGAGTCTCCCATGTTGTAGTACATTCTCCAGATGCAGCCAGGAGCCTCTCTGA AGGACCATGCTGGTACGATGGTCTGAGCTTCTTAGAACCTTCCATGGTT
stIGLV2	61 T C ---	---	GTACAAAGAGGAGCGCTCTGGGACGTCTCCACCATGGCTGGGCTCTGCTCCTCACT/CJCTC CTCACTCAGGACACAGGTGACGCCCTCCAGGGAAGGGTCTTGGGACCTCTGGGCTGATCCTTGGTC TCCTGCTCCTCAGGCTACCGGGGCCAGCACTGACTCACTGGCATGT
stSG1001 7c	70 T C ---	---	GTTCAGGCTCATCTTGAACCTCTGGTGTCAGCGATCTCCACCTCGACCTCCAGGGTGGTGGGAT TAJTC/JAGGCATGAGCCCCACACCTGGACACAAAATACATTATACTCTAAAAGTATAGGATTACT TTAAGAGAAGGAACTAAAAGTATGATGGCTTACTTCTAATCC
stSG1001 7a	33 G A ---	---	GTTCAGGCTCATCTTGAACCTCTGGTGTCAGCGATCTCCACCTCGACCTCCAGGGTGGTGGGAT GATTATAGGCATGAGCCCCACACCTGGACACAAAATACATTATACTCTAAAAGTATAGGATTACT TTAAGAGAAGGAACTAAAAGTATGATGGCTTACTTCTAATCC
stSG1002 3	63 A T ---	---	TAATGATAATTAGGGCATCTTCCACACGAAGATGACACAATTGACCCCAATATCATTGAGGC[JAT] AACAGTTTGGGCTGTTTTCCAGTAGTATGACAGTGA
stSG1009 6	36 G C ---	---	GTGAGAAAGATCGCTTTCTCCTCCCTCCCATGACCG[C]/JGGCTTCCCGGGCACCTGTGCGTTTCC ACCCGAGACGGCCTTTGTAGGGACCCACTGCCCACCTCGCTGCTGTGCGCTGGGTTCCGCTCTAG GGCTCGAGTGTTAAG
stSG1011 8	107 C A ---	---	TAGGCTTAAACCTGGAATCTACAAGCCAAAAGTCCCTCCCTGAGGGCAGTACCCCTCCATTGGGC ACAGTCCAGACCCCAAGTCAAGATGCCCATTCCTTGG[C]/A/CTCAGCCCTCAGTTCCTTCATTCC ACGAGCCGCTGCTGTTGAGTTTTCTCCCTCCAGTGAG
stSG1012 0	89 T C ---	---	TAGTAGGTAAGAAAAGCAAGGAGGATTGCTTATCGGATGACTGTTTACAGTGGTGTGACACTATGC CGTGTTCACGAACACTTTAATA[T/C]/JGTTGTTGTAATCTGATTTTATCCTCGTCTTACAAATG
stSG1017 8	42 C T ---	---	TTGAAGCAATATTGCTAGCACTCTGCTGGACATTAAGTCCG[C]/JGGGAGGAGAAGTGAACAGGAA TCGATTCTTTGTCTTTAACTGCCCTTAGTAGGAGATGTTAAAATACTTGGC

stSG1019	3	136 G A ---	---	GGAACAATACTACCTAAGGACAAAAATACATATTATTAAAAAAGCTCTCTAGTGTATATTGTGTAA CACATTTCTGGAGCTGGTAGGAATAACCAATTTTATTTCTGTAGTGCCATCTATACAAACTTTTAC T[G/A]TTTGAAAACTGAGATTTAAGTTGCAAACT
stSG1020	2c	143 G T ---	---	AAGCTAACTTAGTGAATGGTGCCACTCAAAGGTCITTCGAGGGAAGCTCAGTCCTGGCTTGGGAG AGTCAGCCTTGGTCACCTCATAACGGGGCTCCAAGCTAAGCGGTCAAGGAAGCAGTCCCAGCTCTCT CGCTGTCA[G/T]CAAGACCACAAAGGCAGATGCCCACTGCTGCTCTTCCCTTGTCTACTTTCT
stSG1020	9b	75 A G ---	---	TCCTTTTCTCTTTTCACTCTCAGTCACCATGATTCAAATAAACTAATCTCTTAAGATCCCACITTTAT TTTTA[G/G]CTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1020	9a	34 C T ---	---	TCCTTTTCTCTTTTCACTCTCAGTCACCATGATT[C/T]AAATAAACTAATCTCTCTTAAGATCCCACIT TTATTTTAACTCCAATAAATGTAATTATCAGCTGCTGAATT
stSG1021	8	29 T C ---	---	TACTAGACATGCAAAATGAGAAGATTACA[T/C]GTGAATATTTAAAGAAGTTATATTTGTTTGACAT AATATGCATTGTACCCGGGCATAATAAAGTTAAAGCCAGTTAATCTGA
stSG1025	2	108 A C ---	---	ATAGGTTTCAGGAACAAAAATCATTAAATGGAATAATGAGAAGAAATCTTTATTTTGGACCAATTTT AGGCACTTAAGAGTTTCTTTTCTTCTCTTCCCTTTGATCA[A/C]AGTGAAGATATGATAGGGAATTC AGAAATTTCTCTCTTG
EST10915	0	123 A C ---	---	CTGTATTAAATTAAGAAAGGCACATAATGAGGGACGGAAAAATCTACCTGTACACAAAAATCTGTAC TTTAACAGCATCTTCAAATAAACCTTTAAAGGATAATGGTTTACGATCATTTTAAAG[A/C]ATTTTAA GAACTGAGTTATTGGAC
EST11023	1	166 T A ---	---	TTTTTGTTTAAACCAACCACTGAAAGTTCCACATGTGAAATATAGATACAACAGTGAACAAAAAT ATGTGGCTCCCATGTACATTGGTTACCTATGTACAAGTATCCTATACACCAGTAAACAGCAGGGC AATTAGTCAATTAAAAAATAAGTACATGTTAT[T/A]GTGTAATAAAATTAATTTACAAAGGCTTT TCCACTCGTGGATTGTATCTCTTTTGGAGGGAGGAGTAATCCTGG
EST14096	8	71 G C ---	---	GGGATGTATATTACAGATAACACAACCTCACAAATATACCATCAGACATTGAAAACTAAGGCCATTCT GTGA[G/C]TTATTTTAAAGCTGGTGTGTCACATAATGATCTTAAAAAATAATGAATTTACCAAA ACCAAGATTCTCTTCTAAATGAAAAATTAATGCAGGTACAGGATAACTTTAGGGCTATATCTAATC TGAAG
EST22113	6c	125 C A ---	---	TGCAAAATTGTGAGAAGGCAGCAGGGGCCAACCCCTGGGACCTCATCTCTGTCTAGAATGTGAGGTGG CAGGGATGCTTAAAGTCTTCTCTGGCAGAGACCCGAGGTGCAGAGATGATCTTCTCA[C/A]CCCTTC TCTCAGGGTGTGGAG
EST22555	7	60 G A ---	---	TCAAGCATGTGTAAAGGCACCTGCCCGCCAGACCCCTTCTAACTTCTGCACACTGGAAGGT[G/A]AAA CCTGGGAGAGAGAAGACACTCCCTCCCTAGCTTCTACCTGGGACCCCTCCAAAGATGAGCATTCATC TTGGAGACCAAAATAAAAAAGGACAAAAAGACCAGGGCTCAGAG

EST22917 6	74 C T ---	---	GTAAACCTTGCAAACGCCATGCTAAATGGAAGCCTGACTGACCAAGGGGCTCTGGGCTCTCAATGCA ATAGAAAC/C/TTTGACATGGGGCCAAAGACTTCCAGACAAAGCAGCGGAGGGTAGAGGATATAG GTTAGCATCATCTGGTTGTGA
EST36458 6	65 A G ---	---	CAAGTTAGAACCATGCATCAGCTTTTCATCCATGGTGTAACTTAACCCCTCAGGCTGTCCCTACTCA/A/ GTTGGTTTGTAGCCTCACTCGCACACAGGAAGCTTGGAAATTTGGAGGCTCCAAGTCACCTCTCCA
EST36745 3	56 A G ---	---	GAGGGGAACTTCAAAGAGGATTCCAAACAGTGAAGCAGAAATCATGGGGCAAAAGTC/A/GCTATGG GGCCAGACTGAGGTGGACCAACACAGCACTCCAAAGCTGGGCAATCCCAACCGCTGGTGAAGCCGC ACAGCAGGAGTAGCCAT
STS- R37410c	201 A T ---	---	TGTGACCATACCAAACCTATGCAATAAAAGAAAAAATCCTCACTTAAAAAAACAAAAA AACCTTTGCAATGCTATCATTTTTCAGGCTCTTTTGAAGTGTGAATAAAAGTTTCATAGCATTTTGGGA ATTTATGGTTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTTCTGGTATG T/A/TJATTGTGAGTGGTGCTCTAGTGGCCAAT
STS- R37410b	139 G T ---	---	TGTGACCATACCAAACCTATGCAATAAAAGAAAAAATCCTCA/C/TTTAAAAAAACAA AAAAACCTTTGCAATGCTATCATTTTTCAGGCTCTTTTGAAGTGTGAATAAAAGTTTCATAGCATTTT GGAATTTATGGTTTGAATAAAATACAAAATGTGTGATCTCCTGAGACACATTTATAAACATTTCTGGT ATGTATATTGTGAGTGGTGCTCTAGTGGCCAAT
STS- R37410a	48 C T ---	---	TATCGTGGGAAGTTTCCAAACCTCATCTTATGCTGCTTTTCTACTTGTCTAATATTGGATGCTTCTTGCCA GGCTC/C/TTTAAATTGTGCTGTAACTGGGAAGAAACCTTCTACTCCACAAACCTGAA
UTR- 04350	125 C G ---	---	CAATCTGAAGAGATGCATAGCGGATTGGTGGCTTTCAGCAGCTGTGGGGAGGTGGGACTGAGGAGGG ACTGCTAATCAGTATGGGTTTCTCCCGGGATGGTGAATAATGTTCCGGACCTAGATA/C/GTGAACGA AGGTAGCACGACACTGTGAGTGCACTAA
stSG1026 6	55 T C ---	---	GAAATAAACTAAACTGCAAAGCAAATCACTGTTAATAAGAAATTGTTCTTCTGT/T/C/GACAGTTG AAGTGGGTGTGAGATGGGCATAGCAATGAACAGTGGGAGCCAATGAGGTCTCAGAAATGCGGGCAAA CTCCTCTGTGAAAATGTAT
stSG1028 2	70 T G ---	---	GTATAATTCAGCATAAGCCAAAGCCTTTTAAAAAACCATACTATCATTTTATGAAATCTTTTACA AGA/T/GAAGCACAGTAGTACAAATATTTAAGCATCTCAAGTCCTCAATTTAAGAGTTGACTATC
stSG1031 0	128 C A ---	---	CACTTTAGATATGAGGAAAATGGTTTAAATGGACACAAAGGAGTCAGCCACGTTGGAAACCAACATAG TTTCATACCACGTTGAAACCATGTGTTTATGATATGCAATAACAGCAATAATTTTTTCACT/C/AJTTG TCAATGCCAATGCATTGAAAGGCCCAAGAAATGAGAAAAGGATAACAAACTTTTGTATAAAAAGGTA AGAAATTTCTGTGTG

stSG1033	116 T C ---			TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGGATGCATTTTCGG GCTCCAACTGTCTAGGAAGGCTTAGACCTAGACCTCAACACCAACACCTCCATTC/GCATTTTCCTCTTTGG CTACTATGCTCTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGGACCTCC
1b				
stSG1033	107 A T ---			TTTAAAGCTACATGTCTGAAAGAATGATGCTGCTGATTGAAATAAAGGAAGGATGCATTTTCGG GCTCCAACTGTCTAGGAAGGCTTAGACCTCAACACCAACATTCACCTCCATGCATTTTCCTCTTTGG CTACTATGCTCTTTCCCTGACTTCTGCCTCTCCAGCTCTCTGGGCTGCTGCTTCCACCTGTTTCATCTGA CTTAGGACCTCC
1a				
stSG1243	225 GA ---			ATTGGCAATGGGAAATGACACCAATCATTTGATTACAGAAAATGGTTTTATAATCCTCCTCTTG AAATATGTTCCAGCCAGCATGGTAGCTTATGCTTGCATCCAGCACTTCGGAGGGCCAAAGGAGA AGGATCGCTTGAGCCAGGAGTTCGACACCAAGCTGGGCAACATAGTAAGACCCCATCTCTGTTTTT TTTAAAAAAGAAATTCGTGTC/GA/AAAGTATTTTCAGACCAAAAAGGAGGT
b				
stSG1345	60 GA ---			AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAAATTTGAAGTATGTTTCTTAC/GA/CJGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
b				
stSG1345	54 T G ---			AACTGACGTATCACAGGGGCAAGTATCTCTGTCATAAAATTTGAAGTATGTTTCTTAC/GA/CJGCT TCACATTTTAGCATGGGCCAAAATTCAGGAGATGCCATGCAATGTCCATAAATGGGGCAA
a				
stSG1385	117 T G ---			TTAATGTCATCCAGGGGGGCCAGGATGGAGGGGGGTTGAGGAGCGAGGAGGAGTATTTT TGGTGGGATTCAACACTTTCCCATGAAGAGGGGAGACTTGGTATTTTGT/GT/CAATCATTAAGAA GACAAAGGGTTTGTGAACCTTGACCTCGGGGGGATAGACATGGGTATGGCCTCTAAAACATGGCC CCAGCAGCTTCAGTCCCTTTCTGTCG
b				
stSG139	69 T C ---			TCGTCCTCTTCCAGTGTCTGCCAGAAGCATCCCATGATGTTGTGACCGCACAGCACTTTGTGTCT TT/CJGCTTTGAGCATTGCCACTGTGGCTGGTGTGCTGCCACTGATTGTGACTGTCTTGTGCTGCC
				GATCGGTTCCAGACAAGGCTGATTCAGAGACTCCACGTGGTCAAGGCTCTGTTGTTGTCAATCCCT TGGCTCTCCACTCCAGTTGGCTTCTGTCTCTCA/T/CJAGTCTCTCTCCATGTGGCAACAAGATGGC TACTGGTGGTCCAGGTTCACTGCTCTCAGCTTGGAAATCCAGCAGCAAGAGATGTCTCACTCCCA AAGTCCATAACTCAATCCTTGGGAAG
stSG1427	103 T C ---			CCCTGGAGTTTCTGAACATAGGAAGAGAAATGCAAGTCATGTTAGGTCC/GA/GTCCCTTGCATGA AATGTGGGAGAGGGAAATAAAGTTAGGCAATTTAGCAATCAACAGAACCCCTTCCCTATCCTACC GCA
stSG1471	50 A G ---			CAAAACCAAAATCCTTCCACGATATATTACTATTTAGTCTAAG/TCTTTAATTCAAAGGTTGAGA ATGACGAATTCAGAATTTCTTTCATACATAAAATGCTTTCCTTAGTTCTGCAGATGGGTA
stSG1483	44 T C ---			CACACCCACAAGTTTTCATGCTAATGCCAAGTATCAACTCTTGAGGACAAAGGCAAAACCCAGTGTGCA TC/GAATGTGGAGGATGTCTGTTCAGCTGTAGTTACTAATGCAGGAAACCCCAATGCAAAAGAGGAA AATGCTCTGA
stSG1696	67 C G ---			

stSG1847 b	95 G A ---			TTGCAGACAACAAATGGAAGCTTTAAACCTCTTCAACACAAATGCTACCCCTAAATGAAAGAAATTT AGAGGTTAAATAAACAAAGTGAGAGACC[G/A]TTTACTTACATCAGTTGCGTTATAGACATTTGAA TCATATCTGAATGACTGACTTGTTCCAAATGTGAAACCAAAATTAATAAATGATGATCACTGTGCT TCAAACACAACAG
stSG1847 a	49 C A ---			TTGCAGACAACAAATGGAAGCTTTAAACCTCTTCAACACAAATGCTACCCCTAAATGAAAGAAATTT ATTTAGAGGTTAAATAAACAAAGTGAGAGACCCTTTACTTACATCAGTTGCGTTATAGACATTTGA ATCATATCTGAATGACTGACTTGTTCCAAATGTGAAACCAAAATTAATAAATGATGATCACTGTGCT TTCAAACACAACAG
stSG1897 a	83 A G ---			CTTAATGCCCTTCTCTCTCTGACAGGAGACAGATGGGTAACATAGAGGATGGGAAGTGG AGGAGGACACAGGACT[A/G]GCCACCACTTCTCTCCCGGTCTCCCAAGATGACT
stSG2022 a	86 T C ---			TGCTTTGAGGTTTCAAAATCTGAGATATCTATGGCAAGTTTATAAAAAGTACATTGATCAAGGTACAA TTTTTAACATTAAATACAT[C/A]TTCCATAATCTCATCTATTTAACATTAAACACAGGCTTTGTTGT TGTTATTTTCTCCCTACAATATTTCTGACTCTGTAGGACAGTGGGCTCAGTTGGGGGTTGAC T
stSG2076	104 C G ---			AAACGTTGTCCCAAAATTTGTTTCAGTTTCAAAAGTATAAAATAAGACTTCTGAAAAAAGTTTACA ATTAGTTATAAAACACTTAAGAAATATATTTGACATT[C/G]ACATCACAGTGGGCAATTTT
stSG2108 c	71 A G ---			TTGAGCAACAAATGATTGCGAATTGGGCACTCCAAACCAAAATGATT[C/G]AGGGGCTCCACAGAG GAGC[A/G]TAAGGGGAAGACTTTTATAGGACAACTGTAGAAAGTAAAGCAAGCAGACGTTTGATTG GTTACAGTTACACAGTTGTCTTATTTGGTCTATCTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2108 a	49 T C ---			TTGAGCAACAAATGATTGCGAATTGGGCACTCCAAACCAAAATGATT[C/G]AGGGGCTCCACAG AGAGAGCATAAGGGGAAGACTTTTATAGGACAACTGTAGAAAGTAAAGCAAGCAGACGTTTGATTG GTTACAGTTACACAGTTGTCTTATTTGGTCTATCTATTGGGAAAGTCTGTAGTTATGTAATTGTAAG TTTGTGGGCTGTGCTGA
stSG2141 b	173 A G ---			TTATCCAGGGGACAAGCTGCACAAAGGAATGTTCTTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTGAAATAATCTCAGAAATGGCAGCACCCTGCGATGGCGATGGTGCAGTGGGT GCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAG[A/G]AAGTTCCCTATTATTATTTAAGGC AGTTTTCAGAGCACTGGCATTCTGTTGCTCTG
stSG2141 a	113 C T ---			TTATCCAGGGGACAAGCTGCACAAAGGAATGTTCTTATTTTAAACAAATGACTGCGTGTAC TGAATCTGACTGTGTGAAATAATCTCAGAAATGGCAGCACCCTGCGATGGCGATGGTGCAGGTG GGTGCAGTTCCCTGTGGTCTCTATTGCTTGAAGAGAGAGAAAGTCCCTATTATTATTTAAGGC AGTTTTCAGAGCACTGGCATTCTGTTGCTCTG

stSG2148	50 A G ---	---	TGGGAAACAACCGGCTATAGTCTGAGTGCATATTTTAGACCGTGATTTTC/GJAAAGAAACAATAA ATGTGGATTAGAAAGGAAACATCCATTACTGATTTTCGATACTTGTGATGTTCCACAGACGAGCTC ATCAC
stSG2175	68 C T ---	---	CTCAATGAGGACTCCATCAGCCAAAGCGTTTATATGGCAGATGAGCTGTACAAATCTGTTGTGTGCT [C/T]GCCGGGTGACTCAGCTAATGCTACCGGGTTGGAGCGCACACCGAGCCAGCCACCTTTTCCAT ACCTGGGCAGAGGGAAGGAGTGAAGGACCA
stSG2189	41 C T ---	---	CAAGTGGTGAAGCTGGGATTGAGCCTGATATTCACACTAC/TCTACATTCCTCCAGTATAATA GGAACATCATCGCTAACTTTGAGCACTAGTGTTCTGAGTACTTCGTATAGGTTATCTCAATCCTACTC CAGCTTTGCGAAC
stSG2200	49 T C ---	---	TGTTGATGACCATAGAGGATGCAAGCTCCGGGCTGGTCTGTATGATG/T/CJTATATTTATGTAT AATGCTTACCTGATGATACCAACATATTACTAGCCTTATAGATGAGGATGGATGGCAGCTTGGCTG GTCAAT
stSG2243	85 G T ---	---	CAATTTCTGCCTCTGCTTCCCAGTACTACCCCGTCCAGCAACTGCCTCTCGTATAAATAAGTATCAA GATGGTCAGTAGAAAG[G/T]AGAGCATCTCCTCAGCCCTGGGAAGACAGTGTGGGAGCTTCAGCT
stSG2257	65 A C ---	---	TCAGTGATTGAGGAGCTGGCTAAGTCATGTCTAACTCTGTGAGGCAGGCTATCAGAAAGGGCAG[A/ C]CTGCAGGAACTCTCGCCAAAGCACTGGGCTGCTCTCAGGCAGAAATTTCTCCT
stSG2306	67 A G ---	---	GTCAATCAGCGTAGAGGTCAGTGGTATATAACAAACAGTAGCTATATGATATTTGGGAATTTTACA [A/G]TATGCTCCCATTTGGGTTTCCAAACTGATACAAACCATGAGGTGAACACTTTCACCTGTTTCACAG TTCTCCAGAGA
stSG2334	70 T G ---	---	GAAACTACCCACAGCATCATGTTAAAGAAGAGAGATGAAAGAAAAAAATCCCGCAAAAAACA AAAAAT/GTTCAGTGGGGGCTGTGGGAGGGGTGAATG
stSG2339	63 T C ---	---	AGAGCAGAATGTTGAATCAACAAGACCTCAAAATGCTTGACTGCAGAAGTAACTGCTGCAC[T/C] GTTCTCAGAGTCACCATTAACGGTGAAGTGTCTATTCTGGCTGTCTTCTATTCATCA
stSG2465	76 C T ---	---	CAAGACTAAGAAGCCGCCACCCGAGTGGTCCCACTCAAAAAAGAGATTTCTGATTCTACCTCAAAATG CAGAAACCA[C/T]TACAGATTAAAGAGAGAAACACACACACACTTTGAGAAACTCGCCCTTCTCTC ATCTCAAAGTGTGGGTATGCA
stSG2549	140 T C ---	---	TTGCAGGCTTGATTCCACAATAACAAAGTCATGTATAGAGAATGTGAAATGATACTTGAAAAACCAA GATATATAAAATATTGAAGTCATTTATGCCCTTTTGATGACTGGTTAAATATGCAAAAGCAGCTAAAG GAATA[T/C]TACACCACCCACCCCTTTTAACT
stSG2577	123 T G ---	---	AATTGCCAAATGGAATAATCCAGAGGATTTTAGACCAACTTTGCCCTGTTGCATTCAGTTTGGT CCCAATATAGGCCCTCTGCAAGAAAGAGATCAATGCCGAACCGAAGTGTGAAAGCA[T/G]GAACAATC CCGGCCAGATTAAATATT

stSG2577 a	121 C T ---			AATTGCCAAATGGAAAAATCCAGAGGATTTTAGACCAACTTTGCCCTGTTCGATCCAGTTGGT CCCAATATAGGCTTCTGCAAGAAGAGATCAATGCCGAACCGAACTGTGAAAG[C/T]ATGAACAATC CCGGCCAGATTAAATTAT
stSG2700	58 G A ---			ATCTCTGACTGCTTTAGTGGGAAAGGAATCAATTTATTAAGAACTGTCCGGCCCC[G/A]AGTCAC TCAGCGTTGGGGAAATAAACCACTGGTCCAGAGCAGAGGAAGGCTACTTGAGCCGGACACCA
stSG2724 b	101 T G ---			AAACAAGCTTTGTCATTTCCACTACATTTTGTGTCTTTTATTAATATTTGCAATGCTATAAT TTAATACTTATATCCAAATTGCTTGCCATAATCA[T/G]TTTTTTTAACTCTGGGTGTTGAAAGAAC
stSG2776 a	65 G A ---			GTGGCCGATCTTTACTTTCCAGAAAAGCGGTAAATAAAAACCTGTAGAAAGTCTCGAATATGC[G/ A]TATGGCCCTTTTGGAGTTAGGCCAGGAACCTTCAAAACAAGGGACACTGCTGGCCAAACCAAAA ATATCCACTAATCCCGAATATAGTAACCCCTGTCTTGCCGAATG
stSG2791 b	109 G T ---			AAGGAAAGGTGGAGGGAAGGAAGAAATTACAATGGTTAGAAAAGAGCAACTAAAGATTATTC TATTACTTCTGAACGGTAAACTAGCAATTTTAATAATATTT[G/T]GGTCCACTTAAATCTATTA AAGCAGAAAGGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAACCAATCAG
stSG2791 a	100 A G ---			AAGGAAAGGTGGAGGGAAGGAAGAAATTACAATGGTTAGAAAAGAGCAACTAAAGATTATTC TATTACTTCTGAACGGTAAACTAGCAATTTTAATAATATTTGGGTCCACTTAAATCTATTA AAGCAGAAAGGTAAAGCTATCTCCATTAGTGAAGAGATGAAGTGACAAAACCAATCAG
stSG2826	85 C T ---			CCGCAATTTCAACACACATTCATGAAAACCTAAGGGTGGATCATGTACAAACACAAAAACAAGC TCCCTCCCTCCAAAACAA[C/T]GAACAAAATAAAGAAAAGAAAACCCATGAAATGCCAGGTTTA ATTTTTTTCC
stSG2850	88 G A ---			ATGGGTGCATTGTAAAAGGCAAAATTAATACTTTTTCAGGCAGGGGTGGCAAAATTTAATGAGCTGA TGTGTCCCAAGGGAGACGGCC[G/A]GGCTCACACATCCCATCAAATACTCCTCCCAT
stSG3031	71 T C ---			ATACTCACGGGGGCTGAAGGGCAATGTGAAGAGTGACTGCAAGTCTCTGGCATTTTCTGTGGTGCAGC AAAT[C/G]CCCCCTTTATTTTAAATGATCCAGACATCTGGGCAGCATAGCT
stSG3058	81 G A ---			GTCCCAACTCCTCCTCTTAGAGAAAAAACTGTGATTACCTCACTTGAATATGAAACTGTGATTG AAAAAGTCAAAAC[G/A]TGAAGAAAGCATCAAAGCCAAAAGGCAAAACTGGCTGAGGC
stSG3092	94 T G ---			CAGCATCTCCAGAACATTCCTAGAACTGAACCATTTCTGTCACTATTGAAAAACAAGCCAAAGTTC CAAAATCCAAAAATAATAATGAACGTGC[T/G]GATAAACATTCCTTATGGTCCAGCCCCCTACTTT AGTT
stSG3230	95 A G ---			AAGAAGTACTTTGGTAGCTATTTAAATAAGAGGGGGTGGGAATGAATGTCGAGATACGAGCACCTG CATCTTTTAGTCAATTGTCAGTGGAGTC[A/G]GTGGGGTGCCTAAGTGTCTGAACCTGAAGTAG
stSG3245	160 G C ---			ACATCTCATACCCAGTAGATGAAGAAAGGAATATCTGAGAGCAAGAGCCCTGCTCCAGGGGCC CAGGTATGTGAGAGGCCCAAGTGGGGTGGCCACTTGGTGTTCCTACCAACCCCTGCCAGTCTG GCCCCAGTACCTACCTGGGAGGTTG[G/C]GTACTTGGCTTAAGTACTTCATGCTTTAT

stSG3265	42	T C ---			AGGTGAATGAGTTACTAAATGTAGCAATTTATTTATAAGGAAT/GC/CATTTGTAATAGTTTCTCAG TTTTCAATTATGGAAGATGATGATTTTCAGCCACACATTCAGTGTATGTTCTAAATAACACATCGAC AGGACTGTCTGTTCAAGTACAAATGGAGGACAGCTTTTCAGGGCAATGGGATTTCTTGATAATGCTAA ATCTGTCTGTGAGCTGAATTTCTTGGGCTTTATGTGGCAGTGTGGTAAAA
stSG3269 b	141	C T ---			TGTACTTACTGTGTCATCCTATCCATTCCTTCCCTGAGCCTGGACTGCTCTTCCAAGGGAGACTAGG AGTGAAGGGAGGAGTCTCCCAAAGTTACCTTTAAGCTTGATAATTAGCTCCATAGCCATGCTAAA GCATGA/C/TTGTAGATCCCCAAGTCCCTGACACATTTCTTCTAAGAACT
stSG3269 a	24	A G ---			TGTACTTACTGTGTCATCCTATCC/GJTCCCTCCCTGAGCCTGGACTGCTCTCCAAGGGAGACT AGGAGTGAAGGGAGGAGTCTCCCAAAGTTACCTTTAAGCTTGATAATTAGCTCCATAGCCATGCT AAAGCATGACTGTAGATCCCCAAGTCCCTGACACATTTCTTCTAAGAACT
stSG3284	130	C T ---			TTAACTCAAGAACTTTTCAAGTACAGGAAGATTTATCTAATATTAATAATGACTAAATTACAAAAAGC ATAAAATGTTGAAGCCATTTTAAAGTTGTTTGAATCCATATTAGCACTCAGACTTCCCCA[C/T] TCCCTAACTTTTGTAAATGCTGTAAATGGACATTTGTTGTTGATCTACCC
stSG3292	99	A T ---			GTCTCAAGTGAATCTGTAATACATTTTAAAGTCTGACTTCAAAATCGGTACATGAGGCTTAGACATA CACATCATTTGGACAAGTGACTTAATATCTAA/ATJACAAATCAAAATAGCATTTTCTTAACCTCAA TAAATGTCATATCTTTAGCTCTACT/C/ACCAGTGTATCCATTTTCCCAAGCGTAGAGCTTTCTG TTTCTGTAGATTTGCCTGTCTGGACATTTGATATAAATGAGTTGCTGTATCATGTTGAGACTTCTCTC ACCTAGCATGATGTTTCAAGACACATCCATGCTGTAGCATGCGTCAGTGCTTCATTCCTTTAA GATCCCCAGTATTATTTCTAAATTTGAACCTTGTGTTGGAAATAAAAAATCTGAGGACCCTCAGAG GG[C/T]ATAAGGGAACCTCTTTGTCTTAGTTTCATAAGGACTTTCT
stSG3369	69	C T ---			CAAGACTGTAAAGACGTAGGCTTTGTGAGAGTGAAGGAAGGATGCTCGAACTTGCCCAGGACTCAGG CTTCAGCTTCACAAATCCCGAGGAAAGGAATGACATTTCCAAACTGTACCTTTGTAGC[G/T]CTGGGT CAAAGTCTAAAGAGGACAAATAAATAGAGACT
stSG3398	125	G T ---			TCCTTACTCTGTTAACTCAGTCTGGAGTAAAGGATGCAATCACG/A/G/CTCACTGTAGCCTGGACCTCC TGGGTTCAAGTGATCCTTCCACCTCAGCCAACTGAGTAGTGGCCTGCAGGACAAGTCACCATGCCTA CCTAAGTTTTGTAGAGACAG
stSG3416 a	43	A G ---			GTAAGACAAAGTTTTGCTATGTTGACCAGGCTGCTTGAACCTCTTGGCTTCAAGCGACCGTACCA CCTTGGCCTCCCAAGTTGCTGATATTACAGGTGTGAGCCACTGCCGCCGACTTTTAAACTGAAT GTTGAAAATCATTCTGCTCTTGTGCTGGTAAACACTGA/T/A/CAAGTTGCTTAACTTTGTGAAACCCAC TTTCCCTATCTGTAACAAAATGGACAAACAGAACTTTTCTTCTCTC
stSG3424	173	T A ---			GTTTCATGTTAAAGATTAGGAAAGCTGTGGATGTGAGGGGTGAGGTGATGTGAGGCGCTCACAGA ATGAGTGGCAGAGAGGGGCCCT/A/GAAATAGCTTACTCTGTTTCTCTAIC
stSG3436	88	T A ---			

stSG3463	103 C T ---	---	GATACAGAGATAGTGGTATGGATGGATAGTATGAAGGACAAATAATACAAATATATTTATTG AAATAAACAAAAATGCATACACAGCTCAATGGGTCAC[C]/TJGGAAACAAACTTGCTTGACTATATTA CTGA
stSG3491 b	71 G A ---	---	CAAGATACCTTCATTGTCTCTAAGTAGTGCAGTCTGGCAAATATTTCTCACGAACAAGGACGATTTG AAG[A/G]GTGGAATTACTGTGCAAGGAGTACTTTACCTCCAAATAGCCTGCAATTTAGCAGTCTGA ACAACTCTCTAATCTTTACTGGCACCTGTGGATTCTATTAAACTCATTTATACTATTTCTGTGATG ACAGAAAAATAAGTTAAC
stSG3523	33 C T ---	---	TAGCCATCTTACTCTAGTCTTTTGGGTTT[A/C]TGCATATATGTGTGTACAAACACACACACACACC CCTAATCCTCAAAATGCTCTGGCATAAGTTTATCTCTACTGGTCTC
stSG3536	213 A G ---	---	AGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTAATGGAGACATCCACTT ACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAACCAAATACAGAATGGCTTC TGTGATACTGGCTTGTCTGAAACGCATCTCACTGTCACTTCTATTGTTTATATTGTTAAATGAGCTTG TGCACCATTAG[A/G]TCTGCTGGGTGTTCTCAGTCTTGCCCATGAAGTATG
stSG3583	112 G A ---	---	GAAAAAGCTTAACATACGATCCATGTGCAAAACCCCAACAGGATCTACGAACCTCTGGCATGATCCA CATCGCTACACATACCATGCTGGAAGTGACATCCACACACAGGCAC[G/A]AACATACACAGTACTGT CTAGTTATCAACACCTAC
stSG3586 a	60 G C ---	---	CCTAGTAACATAGTGAGACCTCGTCTCTACTAAAAATTTAAAAATCAGGTGGTGGT[G/C]JACG CCTGTAGTCCCTACTTGGAGGCTGAAGTAGGAGGACTGCTTGAAACCCAGGAGATGGAGGCTACAGT GAGTTATGATGGGCCATTGCCACTCCAGCTTGAGACTGTTTCAAAA
stSG3589	101 T C ---	---	ATATAGTGTGGTAGCATTATAAACTCCTTTAAAAAGCAATCTGGCCATATCAAAAGGCAAAAAAGT GTATATAGCACCCCTGGCACAAAAACCCCAATGAT[C/J]CTATTCCCAAGAATGTATCCAGATGAAA GTATCCAACAACAACAAAAGCTATATACAC
stSG3590 a	70 A T ---	---	GAGAGATGAGCTATTTATCTTTTACTTAATGAAGATGTAAGAAATGATCTTCTGTTCTAAAAAAA AAA[A/T]TCTCTGAGTCTCTGACCCCTGTAGGAAACACATTCAGTTTCTACACT
stSG3619	78 A C ---	---	CAGTGAGACTTCTCATTTTATAGCAAAATACATTTTGCAGCTTAAATTTCTTGAATTCATATACGCT TCTGTCAATTT[A/C]AACAAACTTCCAGAGAAAACTGGGCTCTATATATTTAAG
stSG3644	40 T C ---	---	ACATATGTAACCTGCCATTAGTAGCCATATTTAGGATGAGAT[C/J]GGATTGAGAGGCATGAACCAAGG ATGCGTAATAATCATTATGAAATAATAAGTTATCTGGGAAACGGCCATTTGTCCAACATTACTAA GTGCTCTACTA
stSG3646 c	70 G A ---	---	CTCATAATTAGATTGAGATTGTGCAATTTTGGCAAGAAATATATGATGATAACAATAATATGTCTTACT GGT[G/A]ATATTAACTTTGATACCTTGGTTAAGATGGTGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA

stSG3646 b	55 A G ---			CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATGATGATAACAATA/A/G/TATGTCTT ACTGGTGATATTAACTTTGATACTTGGTTAAGATGGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3646 a	43 A T ---			CTCATAATTAGATTGAGATTGTGCATTTTGGCAAGAATATATG/TJTGATAACAATAATATGTCTT ACTGGTGATATTAACTTTGATACTTGGTTAAGATGGTCTGCTAAATTTCTCCATTGTAGAGTCATT CTTCTCTTTGTA
stSG3693 b	85 A C ---			ATTGTTTCCCTGAACATTCCCGTGGTCTCCCTCTGAAAGCCGATGACCATCCAAACCCTGGACTCACCT GAAATATCCTACGAGGC/A/C/JTCGCCCTCCGAGACTGACGATTATTAACCACCCACACGGAAGG
stSG3693 a	30 C T ---			ATTGTTTCCCTGAACATTCCCGTGGTCTCC/C/JTCTGAAAGCCGATGACCATCCAAACCCTGGACTCA CCTGAAATATCCTACGAGGCATCGCCCTCCGAGACTGACGATTATTAACCACCCACACGGAAGG
stSG3698 b	145 G A ---			TCTTGCCCTTTGTGTACCCCTAGAGAGATGGCACCCCAATCCCAGGGTTGCTCTCTGACTTCCACCAT TCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTAAGTCT TTATTGGG/G/A/JAGAATACCCACCCACCTTCCCTCACTGCAGA
stSG3698 a	51 C G ---			TCCTGCCCTTTGTGTACCCCTAGAGAGATGGCACCCCAATCCCAGGGTTG/C/JTCTCTGACTTCCA CCATTCACTGACTTTTATTGCCAGAGGAGCTCCAGGAATCCACAGTTCTGGAAGAGAGGGGCTCTA AGTCTTTATTGGGGAGAATACCCACCCACCTTCCCTCACTGCAGA
stSG3724	107 C T ---			ACCAAGCTCATGTGCAGAGGGTCTCCTGCTGGATCCCCAACTGGAGCCATCCCTGGCCTAGACTTCT GTCTCCCTCACTTCTAAATGAGTGCTCAGTGATGTGAAG/C/JTACACAGGAGTCCCTCAGGGCAAAA GTGGCTATGCTGGTGCT
stSG3725	104 G A ---			GCCAAAACAAAAAGATCTTTGGAGTTTACTGACGGCAGCAGTTAATAGCACAGTCAACAGCATTTAA ATCAAATATATTATACCAGCCCAACAGCAACAGCCCG/G/A/JAGCAGGAATCGGCACATAGTCATAA ATAACATCAGGGGTAAATAACGGCACATTTA
stSG3751	128 G A ---			CGGAAGAAAGAAACACAAATCCACAGGAACAATCTATGGTTCAACCTTTTAGAAAGATGATTTTG AGGGCTTCAGTATTTAAAGGGGAAAGCAGGCTGGAGGGGAAAGAGAGAGATATGGTCCC[G/A/JT GCTGACTCCATGTGTGCAAGAG
stSG3787	49 T A ---			TTCTGTGCAAAAGAAATCCACATCATTTGTTGGTAGCAGAGGATCTCTTAT/AJAAAGTTCCCTAAGA CACTGAGGGCATAAACCACCAAAATAAATAAGGAGTGATAGGCTAAAGCAGTATCTTCCCT
stSG3880 b	115 G C ---			GACAAAGGGAAGAGATGCGCCAGAGACAGGGCTGGGGCAGCTGGGGTCCCTGAGTGCCAGGGC CACCACAGTCTGTGGGTCAAGGCCCTCTCTGCGGAGCAGGTCTA/G/C/JGGCACGGAGGATGCAG GGCTGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCATTCTGCCCCT

stSG3880 a	36 G C ---			GACAAGAGGGAAGAGATGCGCCAGAGACCAGGGCTG[G/C]GGCAGCTGGGGTCCCTGAGTGCCAGG CGCCACACACAGTCTGTGGGTCAAGGCCCTCTCTGGGAGCAGGTCTAGGGCACGGAGGATGCAG GGCTGGAGGGGACCCACCTCGGGGACCCAAAAGGAGTCCATTTCTGCCCT
stSG3895	44 A G ---			AATCAGCCATTGTACACATTGCAGCTATGATTGTTAGTGTG[G/G]TTTTTTTCCATTAACTAA TACATGCCCCATAGATATATTCAATTAGTGTATCACCATTGGGAACAAGATGCTGATTCGTCAACTG AAAAAT
stSG3902	104 T C ---			TCTGTTGAGACTGGAGAGACCAGGTACCAAGCAGCTCTGGTGGGAACCTGGCTTCCTGATAACA TCATCTATTTCACCTAAATGTGAACCTGCTTTCTTTCT[C/T]CAGCTCAATAGCTTAACATCTAATTC ATGTTGCTCCCTTTGCTGGACAAT
stSG3935	50 G A ---			GGGTGCTGACGGACAGGCACACCCAGCAGTTTCAACAAGCAATTTGTCC[G/A]CTAGTGTGCAGGC TCCTCCCCAGTTTCCACAGGCTGAGTACTATGGGGTCACAACCTTCCTGGACGT
stSG40	25 A G ---			GAGGAAGAGGTTGAAGAAAGTGTGA[G/A]AAATATATTTAAGATTTCTTGGGGAGAAATCTCGTGC CCAAACCTGGTGATGGATCCCTTACTATTTAGAATAAGGAACAATAAACCCCTTGTGTATGTATCA CCCAA
stSG4009	32 A G ---			GTGTGGGCTGTCTGATGATGAATGGCGCGCT[G/G]TACTCTTTACGGTCTTACACTTTTATGCTCCT ATGAATTCTCTGATGGCTTTAAGGGCTGAACCATATCTGAAGTTTCCACACTGCTTACA
stSG4033	123 T C ---			AGAAAGCTTGGGACAATGGCAGTGCCTTTCTGAGTAAGACATGAATGCCATCTGGAGGATCCATT TGAACCTACAGTGCAGTAACCAAAAGAACCTAATGTTTTCAAGCATAAAGGTACTTTT[C/T]GTGAAC AGGTGGGCAACAC
stSG4038 a	29 G A ---			GCTGAGAGCACGTGTACAGCACGCTGT[G/A]CGCAGGCCACTCTGTGCAATAAACATGTTCTGCC CATGTTCTCAGTCAGGAGGTTTCAGGCTCCCGGAGAGCACTGAGGGTTCCATCACT
stSG406	53 T C ---			ACTGTGGTTCAACAGTATTGCGTTGTCAGACTAGGAAGCTAACGGAACAAA[G/C]GGTTTTAGTT TTGCTGAAGACTGGCCTTATTAAATGGACAGCTTTCCCTAACAGAGATTATTAACTTTATCAGGTGTT AACATCTGTTTCAGGAACATGGCA
stSG4095 b	55 G T ---			ATCTGGGCTGAATTAGTCAAGCAGGT[C/G]GATACTATTGCTGCTAGATGTATTAG[G/T]ATAAAAA GTTTGCTTCTGTAATACITTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGCTTGAGAAATCAAG CCTTTGGACTAACCCAGGGCATTTGCCCTTCATCCTGG
stSG4095 a	27 A C ---			ATCTGGGCTGAATTAGTCAAGCAGGT[C/G]GATACTATTGCTGCTAGATGTATTAGGATAAAAA GTTTGCTTCTGTAATACITTTAAAGCTTGCTTATCTCATCTGTAAACCTATGTGCTTGAGAAATCAAG CCTTTGGACTAACCCAGGGCATTTGCCCTTCATCCTGG
stSG4120	65 G A ---			TGCATGTTCCACATCTTTATAACAGCAAAATGTATAATAAACTACGTACTTATGGATAATCAC[G/ A]CTTTTCCCTCAGAGAGCCACAGTTAAACAGCTTCCAGGACACCATTAATCCACCGAGCT

stSG4128	54 A G ---	---	CTTGGCAGATAAGGGACTCGTTTGCAGATATGACTTTCCTTTGTGTACATTCT[AG]TATATTATTT TACTTCTTGAAATGCCACATAATTTGCAATAATGATTCACCTCCTTAGCTCCTCAAAAGCAAGTCC TTTATCAAAATGCAAATGTTCCAGAGGG
stSG4209 b	128 G A ---	---	CACGAAACAGATGCAGCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAAGC AGGGCCGGCCACTCCAGGCAAGCAAGCCACCCCGGAACCTTGCAGAGGCCGACACTCCCTC[GA]GC AGGGGACCCACGGAGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4209 a	65 G A ---	---	CACGAAACAGATGCAGCTACACAGTGTGTAGGACCGAGGCTCACAACATCCACATGGCACAAG[A]CAGGGCCGGCCACTCCAGGCAAGCAAGCCACCCCGGAACCTTGCAGAGGCCGACACTCCCTCGGC AGGGGACCCACGGAGCGACAGGTGCTTTGATGCTCCGAAGAGCTGAGCTCCATTCCA
stSG4254 b	31 G A ---	---	CATTACCCAGAACGCCATGGAGGACCAGAGC[GA]CCACGGCCGGGACTCCCGCGATGGCTGGGGG GCTATGGCTGTGACAAGAGATGAGCGAGGGCCGGGGCTGCTCCTCCCCAGGGGCGAGACGTGAC TGGGGGACCATGGCCGAAGAGAGGATGACCGGTGATG
stSG4301	81 T G ---	---	TGCAACAGCTGTGAGAGGAAATCCTTGGCAGATCAAAAGAGAGGTAGTGGCTCCACACTTTCCAT TTAAGCAAAATAAAT[GA]GCTTCTGAGTAGTTGCCAGTTTACCCCAACATTTTG
stSG4331 b	71 T G ---	---	CTCACAAGGGCCACACAGAAAAGATACAAATACATTATCCAGCTAATATTAGTTTATGACAG AGAGT[G]TTTTCAACAAGTTTAAAGTGTCACTGAAAGAGCATGTTAAAAAGTTTAAAGTTATCATT GGAGAGCAGATTCTTGGCTCGCCCTTGATTTCTGATTTGAGGGGTGTC
stSG4340	76 G A ---	---	TTTTGCAACAACATGGATGGACCTGGAGGCCATTAAAGTGAAGTAATGATACAGAAAGTCAAAAACC ACATGTTCTC[GA]TAAAGTGGAGATAAACAATGTGTACACCTGGACGTGGAGAGCAGAA
stSG4361 b	109 A C ---	---	TTCCCAACCATTTGAGTGACAGAGCTCAGTCAATGCAGAACTCAGTTTGCATGACTCAAAATAGGCAC AAGTTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTG[C]A/C]CCTTCAACAATAAGAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTGAGG
stSG4361 a	24 T C ---	---	TTCCCAACCATTTGAGTGACAGAGCT[C]CAGTCAATGCAGAACTCAGTTTGCATGACTCAAAATAGG CACAAGTTCTTGGAATTTCCATAAGGGATAACTGCATCTTTTGACCTTCAACAATAAGAAACGACTC AGCGACTTTTCTGTGAGCAAAATGTGAGG
stSG4376	73 A G ---	---	TTTCACTGCTACTGGTTTCGGTGTCTGAGTCTCAAACTGCTTTGCAAGTCTTCTCCAAGGGGAG AACAG[AG]CTGGAACCTCGGCTCTGCAAGAGCCATTCTTCCAAGCCATTCTTCTCAGCTGC
stSG4381	50 T C ---	---	GAAGGCCACAACACTCCATAGCCAGAGATGACAACATACGATTTTCTTT[C]CAGTCTTTGAGT ATCCACAGTAGTGTCTGTCTCCATGTACAAGTGTCTGTCAGAACACCCATTAAATTCATGCC
stSG4410	79 A G ---	---	ACCAATGGTCTGCTATGTGCATCCGATATTTTGGCCGATCTGAAACTAGTCAAGGGCTTAACCAT TCAACACCCGC[AG]TGACAACGAACCCAGTGGACTGTGAAACTAGGCTGCAGGAGGGTGGCTTGT CAGCTGGGT

stSG443	65 C T ---	---	AGCAGATCAGTCAGCCACCTTGCTCTCTCTTTAGGGAGAGGCTAGGCAGTGAACACATCA/C/
stSG4430 a	54 A G ---	---	TJGTATGCAATGAGAAAAATAACCAACTGGTAGGATGGGGAGGGGAGGCAATAGGCAC AAATGGAATTCATCCTGGCTGTCTCTCAGTTC
stSG4448	99 G A ---	---	ATGCACATTAAATGAATGGCCTAACTACTGGGAACCTTTAGTAGTTCATAAGGTJ/GJATTAACATA GGTAGATCCAGTCCCTATGACAGGCTGCTGAAGGAACAGATATAGGCATCAAGAGGGCCATTTT CCTCCCTCCCTTCCCTTCCCTTCCAGTCTTTCCATACTGTTCCCTCCCGCCCAACCCAGGCTCT CGCTAGCCCTGCCCTCTGGGTCACTGC/GJATGGGTTAGCCCCCAAAAA
stSG4449	92 T C ---	---	ATTAGCCATTCACTTTCGAACAATTGCTTTACTGTAACTAAGAGTACTGTACTGATGATGTTTACAAT TAACTTTGGACAACCTAAAACCTTA/JCTAGTGACATTTGCTGTCTAATAATCAATACTTCATCATA GGCTGAACATAATTATTAAGAGCAAAAGTTACCCCTCCC
stSG4467	42 C A ---	---	CAGACATGAGGGATGCCCTGTCTCTCTGGGACAGAGCCCTCA/CJAGATGATGTCCATGTTTTGTGT GAATGAAACTCAAACACTCTTCAGTTTTTAGAGTCATTTTCTGGTATCGAGCGACCAACCCGAGGAG CACACCTGCTTCCAAAGCTGCTGCCCTCTGCACACAGT
stSG4475	21 A C ---	---	ACATGTCACTTCTGACCAGGJ/CJTATTAATAATAGTTTATTTAGAAGAAATGAGTTGAAGTGAGCGA TTAAGAGACACAAACTGGACTTTTGTCTTTACTGTAGCACCCAGGTTTCATG
stSG4477	32 A G ---	---	GTAACTTCTGGGGTGGGGTGAGACAAACA/JGJATGAACCAATAATTAATTACAATTATACATT TCAAGGAGACTTTTAACTAGGTTAATGTGAACGCGAGCCATCAATGGTTGTGAGGAAAAAGGAGA TGAAGTCTGCTCTGGGGCAACGTTTGGCTCATTTGCAGTCAGACTTGGC
stSG4531	79 C T ---	---	TGAACCTCAGAGCTGGTGGGAGCTGCAGCGAGGGAGGCTGGGGCCAGATGAGCCGCCGGGA CAGCAGGCTG/CJTGCCACGCTCTGGCTGGTAGAAGAGGACATAGGCTGCCCTGGACTCGATCT GATTCTCATTGACAGGGGAGACGCTGTTGTCATCAA
stSG4550 b	86 G A ---	---	TGCATTAAAGGAATGATACGGCATATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT AAAAGAGACAGTGGGCACCJ/GJCAATTTGAGGGGAAGGGGGCAGGTTTTAGAGAAC
stSG4550 a	85 C G ---	---	TGCATTAAAGGAATGATACGGCATATTTGGGGGACAGAGAACAGGCTTGATGAGGACAGAGTCTATT AAAAGAGACAGTGGGCACJ/CJGCAATTTGAGGGGAAGGGGGCAGGTTTTAGAGAAC
stSG4590	47 A G ---	---	AATCAGGCACAAGCTCGGAGAGAGCCCAACAAAAGCTCTCTGCACJ/GJATGGGAGGGAGACAC CATTGAAAAGGCATCGTTCTCTTCATGCAAGCGAGGCTGGCTCCACAGGCATGGTCTCTTG
stSG4623	22 T C ---	---	AATCTGTATCACCCAGCGCTGGJ/CJCAATGTACTAGTAGCTTTCCACAGGGATTTTTTATACTATTC CTATAAGGTTTTATCATGAATAAAAAAGCTCACAACCTCTTTTCAGCCATTGCAGATTTCACATTTATCT TAATATCCTGTTCAAGATGCTCTGGAG
stSG4843	102 A C ---	---	TAAAAAAAACAACCCCCCAAAAAACACCCAGAAGTTTTTGTGTTTTTATGTTTTTCAGATTTTAAAG GTATTTCTTCTTAGCTTCTAAATTTTGAGTCATJ/CJATCAGAAAAGTCTCCCTACTCCCAAGGTGA GAAAGGA

stSG4850	38 C T ---	---	GGAACTCTAAACTGGGAATGGCCGAGGAGGAAGGGCTC/TGTGCACTTGCAGGCCACGTCAGGAG AGCAGCGGTGCCCTGTGCGGGAGGTTTCCAAGGTGCTCCGTGAAGAGCATGGGCAAGTTGTCTGCACAC TTGGTGGATTCTTGGGTCC
stSG4879	86 A G ---	---	AACTCTGAAGGGGTGACCTCAACCCAGCCCTTGTTCTGTGAGGTCTGCTTTGCAGAATGGCCTG CCCTGGGACTGGAGCAG/GCTTGGTGAGCTCTAGGTGGAGGGTGGTGGGAGGGGCATAGAAT AAACCTTCC
stSG4885	104 G A ---	---	ACTGGACTGGCTCGCTTGCTGAGCCGGCTGAGCGCGTGGGACTGCGGCTGACCACTCGCTCTTCAG AGACTGCGCCGCGGTGACCACTACGCTCTGCC[G/A]GTGGGAAAGCAGAAGCAGGACC
stSG4896	112 C T ---	---	AAACAAATCAACCCCAATCCCAGCAGTCTATGTACAGGGCCACTCCCTGCCCTCTGCCATAGAGA GGTTGGGGGCGAGCTGAGGAGTGGTGGGGCTGGCACTTTC/TAGCCACAGGCCCTCGAGG AATTAATTGACTG
stSG4932	22 G A ---	---	ACAGTGCCGATGGTTACACAAT/GAJTTGTAATGTATTTAATCCCACCTTACGAATGATTTAAATGA TAAATCTTATGTTTATTTTCATCACTACCAAAAGCGTGTGGTGCAAGGGTGTCTGTTCTGGTCTCT
stSG4950	24 A G ---	---	TCATGACTCCCAGGAAAAGGTCTT/GJCTTAGCTTCTCTCCCTACTTTCTCTCTACATGTCAGC ACTGTAATGTAGCTAAGATATAGTAAGGCATTGCTCCCTACCCCTACACTTCAAGG
stSG4957	136 G A ---	---	AGATACGGGCAAAACACTGGGATGGCTTCCGTGACAACCTAAGAGGCTCCGAGTTATATTCTGGGT GGGAAACACTGACCCAGCCCTTATTCCTTCAAGGACTCTAGTCAATTGGCAAGGAGGATTCATGAGCC CC[G/A]GTGACACAGATGGGGCCCCTGCTCTATATCAAC
stSG4961	91 C T ---	---	GAAGTGTCTGTGAGGAGGTGTGACTCTCCCTGGCTGACAGGGGAAGGCTTAGCAGAGCTTTGTCTTAG AGGAGTAGATGAAAAGGAAAGTA/C/TJAGAGAGGCCATTAGGCCAAAGTCAGCAACACAGACAA
stSG4967	72 A G ---	---	ACTGGTGCCTCTCAGCAGATTCAGGGGTGTCAGGGCTGGTTACCACAACTCAGTAGGAGTGCAA GGGCT/GJTAACCCCGGAGCTAGACAGCCTGGGTTTGAATCTCAACTCTCCCTTTCTTGCTGTGC AACCCTG
stSG4997	22 T C ---	---	CAAGGAGAGTAGGAGCCCCAA/TCTTTTAAATGGTTTCTCTCCCTCATGCTATTTGATCCAAAAA CTATATACAAATTTGTAGCAGTCTCTGTATAGTTATACACATGTTTAGAAGGGAGGGAGGCAAGAA GGGATAGGGAGAATGGTGATCCAAAAT
stSG6312	37 C T ---	---	ACAGGTTCTCACACTTTGAGCCCTTAGTGCAAAAAAC/C/TJATGCAATGGGGAAATAAAAATGCTT ATCCAGTGGAGCGCTCCCTGATGCATTGAAATATTAGGATACTCAAGCAGAAGAC
stSG6345	107 G A ---	---	GCTCTGGTCAAGCAAAATCTCCAGGACAGAACCAAGGACAGTAACACACATGTATGACCCCTTA CAAGTGTCTTTAAGATTTTAAAAATGTGATGTTTTGTCCAC[G/A]ATAGTTTCAGGCAATTAAGAAAT GCAACCCAGAGAAATTCGTGAAAAACATTTTGCTCTTTGGCCCTGGTGTGGACAGAAAGGGTGGCCAA ATGGATTGAGTGAAGCAGACATG

stSG8362	88 G C ---	---	---	TGTGAAATGTACACTCAGGCTAACAAATACCTATTATTCTCTGTTAAGAAGGTTTAGCAGGAGC CTCCAATGAGCACTGTATGTA[G/C]AGAAAAAGGGAAGGAGCAGGAGGAGGAACAGATCTGCACAGA AT
stSG8010	62 G T ---	---	---	CACATCTGTGTTCTGGAGCAAGGGAACCCACAGAAAGGCCAGGAGTTTGGGTGTGCACTGG[G/T]T GTCITTTCAACTGGGTGGAACCAAACTGAGTCCTTGAAGTCTCGCTCCTGAGGCTGCAGAAGAAATAGA TGGCTT
stSG8022	53 G A ---	---	---	AGCTCCTGACTCCCTGTTTCAGTGACGTCATGTTGGTAGCCTGAAATGGACCAC[G/A]GTGGGAGTTAT TTACACCATTGGAAACTGGAAAACTCTACAAATCAATGCGTTTATTCTTTATTTTCAGAGGGCAGGTT TATCAGCACACGCTGTATCTCC
stSG8032	67 G C ---	---	---	TGATTGTTAGGGATAAGTGGGCATTGTGTTTACAAATTACTTCCAAAAGAAATTCAGAAAAATTGTGTGT G/C]TGGGAGGCAGGGTAGCAAGATAAAAAGAGGGAGGACAGCTGGGGTTGGTAAAA
stSG8064 b	46 C A ---	---	---	AGCTGGCTCTTCTCTCTGTCGTGTCGGAGGCTTCACGTCTCG[C/A]CCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGAAACAATGCCAGGAGAAATTCCTGTACATCAAAACAGGGAACA
stSG8064 a	23 G C ---	---	---	AGCTGGCTCTTCTCTCTGTCGTGTCGGAGGCTTCACGTCTCGCCCGTGGTCCCTGGGTGGCC TGCAGGACCAGGGGTGGAAACAATGCCAGGAGAAATTCCTGTACATCAAAACAGGGAACA
stSG8072	59 A G ---	---	---	CACCATCATCATGAGTAGGCTGAGGAGCAGGAGGGGTGGTCTTCTGTCTTAGGG[A/G]TGGC AGAGCAGAAGGAGTCCGAGTATTAGTGGCCGCGATGCAGTTCAGCCCTGTGCTGTTCAAAA
stSG8100	40 A G ---	---	---	ATACCCACACACCCCACTCAACCTTGTATCAAAATTC[A/G]AAGTAACTAAAGTATAAGAAT ATCATGACTAGTTAAAGATAGCAAAATACCAATAGGTACAAGTTCAAGTATTAGTATAACAAAGTAT CTGAGTAACAAATGTCTTGGAAATGGG
stSG8102	138 T C ---	---	---	AAGGCTCCTTTGAAAGCATGGTTTATTGTTCCATTAACTTGTCTCAGCTATCTGAAGTATGATT GACAAATAAACTTGCATATATTGAGATGTACAGTGTGATACATGTATGTATACAAATGTGAAA TGA[T/C]TGTATAATCATATAATCAATAATGGTATATTGGTTAGGAAATGTGATGGT
stSG8105	110 A G ---	---	---	CAGTGGTTCTCAACTCCAGCGTACACGAGGATGGTCTTGTGCTTGTAAATACACAGATGACTAGGCC CACCTGCGGAGTTCCTGTTGGAGTCTAGGCCCTGAGAAATTC[A/G]TTCTTCAACAAGTCCCAGGTGA CCCTGAGGCTCTTGGACTGGGGAACATGCTTTGAG
stSG8130 b	96 T C ---	---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGACTGGATGGTGGCTGCTTTTAAAGTTCAAATT GACATTCAGACAAGCGGTGCTGAGCC[T/C]GTGCCCTGTCTTCAGATCTTCACAGCACAGTTCC
stSG8130 a	36 C G ---	---	---	GTGTGTACATCATTTGGGAATGGAGGGAATAAATGA[C/G]TGGATGGTGGCTCTTTAAGTTTCA AATTGACATTCAGACAAGCGGTGCTGAGCCCTGTGCTGTTCAGATCTTCACAGCACAGTTCC
stSG8145 b	124 T A ---	---	---	TTGTGGACTTCAAAATCTTCTTCCTTCAGATTTTAAATGACATTATGTCATGTACATATTTTAAATTT AGACACATTTAGAGAACACAAATGTGAACACAAATCTAAGAAATGAATGAGATGT[T/A]CTGAAA TCTGATTCAAACACTTATCTTAAACTGACTTCTGTCAATCCCTCTGCTCTGTGAAGG

siSG8145	97	C	---			TTGTGGACTTCAAATCTTTCCTTCAGATTTTAAATGACATTATGCATGTACATATTTTAAAATTT AGACACATTTTAGAGAACACAAATTGTGAA[C/T]ACAAATCTAAGAAATGAATGAGATGTTCTGAAA TCTGATTCAAACACATTATCTTAAACTGACTTCTGTCAATCCTCTGTCTGTGAAGG
siSG8150	36	A	---			ATTGTTCTTGCAATTGCTTGGATTTTTCAGAAATAGT[AG]ATAAAATAATAACGGGGAATCCTAGGCAT TCGTGTTTTCTATGTTTTAACAGGATTTTCTCTAATGTTTCGCTATTAAATACCATGCAGGAAATT GGGAAAT
siSG8340	30	C	---			AGAGGATTATGGAGAGAGCTGGGCAGGATC[C/T]CAACATTATGACCCCTGAACCTCCAGAACTGGAT TCACTAGAAGGAGAGAGAGAAAAACGCTCATCAAAA
siSG8466	111	G	---			TGTGTTATTTGGGTGACTGTAGCCTAAGGATAAATGAAATAAATGACAGCAATGTTATAAGCAGTGGGA GGAGTGAACCTGGGAATACTTGGTTACAAGGTATTTGCACTACCT[G/A]TGAAGCAGCACAGCATTAT TTGAAAG
ESTD-ACE	--	--	---			GATCAAGCAGTGCACACGGGTACGATGGACCAGCTCTCCACAGTGCACCATGAGATGGGCCATATA CAGTACTACCTGCAGTACAAAGGATCTGCCCGTCTCCCTCGTCGGGGGCCAACCCCGGCTTCCATGA GGCCATTGGGGACGTGCTGGCGCTCTCGGTCTCCACTCTGAACATCTGCACAAAATCGGCTGC
ESTD-ADA	--	--	---			ACCATCTTATACTATGGCAGGTAAGTCCATACAGAAGAGCCCTCTCTCCCTGGGATTTGAGTGGGGTC CCAGCTCCACCCAGAGGCCCTGGGGAATTCAGGGTCACTGTTCTCTCTGCTCCCTGTGGGAAT CAAGCCAGCTCCAGGCCAGAAGTGGGACTGTGAGGACATGGAGGCCCTCGGCACCTGAGCTGCAGACCC GCAGACAACTCCTGAGCTTCTGGGCCCTCTGAGCTTGTCTCT
ESTD-AK-168	--	--	---			GGGAGTGACAGCTAGAGCACCAAGGGGGGCTCTACAGCTGTGTTCTCATGGAGGACAGGCTTCTGCTC ATTCTGG
ESTD-ALB	--	--	---			AATCCCAGCACTTTAGGAGGCTGAGGCAGGCATATCACAGAGGTGAGGATTTGAGACCAGTCTGA CCAAATGGTGAACCCCATCTCTACTAAAAATACAAAATTAGCCAGGCATGGTGGTGCATGCCTGT AATCCCAGGAGGCTGAGGCAGGAGAAATCGCTTGAACCTGGGAGCGAAGTTGTGGTGAGCCGAGAT GGCACCATTTGCATCCAGCCTGGGCAACAAGAGTAAATCTGTCTTC
ESTD-ANT1	--	--	---			TCTCCTGTCAATTCCTACTCCATTAGTCAAGGTGAGTGAAGTGGGCAATTAACCAAGTAATTCA TGGACTGCCCCAACTCGAAACAAGGGCGCAGTGGAGCAGGATATTATGCTACGGGTTACCTT TTTTATGGAGGACCGAACTGAGGCTGAGCTCAGATGATCCTGT
ESTD-APOA2	--	--	---			CCAGGTGTTGTGGCACGTGCCCTGTAATCCAGCTACTCGGGAGACTGAGGCATGAGAAATCTTTTGAAC CGGGAGGGCGGAGGTTGCAGTGAGCTGACATCGCGCCACTGCACCTCCAGCCTAGGTGACAGAGCAAG ACTCC
ESTD-ARSB	--	--	---			GGAAAGAAATGGAGCCTGTGGGAAGGAGGCTCCGAGGGTGGGCTTTGTGGCAAGCCCCCTTGCTGA AGCAGAAGGGCGTGAAGAACCGGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCATGAAGCT GGCCAGGGGACACACCAATGGCACAAAGCCCTCTGGATGGCTTCGACGTGTGGAAACCATCAGTGAA GGAGGCCATCCCCAGAAATTGAGCTGCTGCATAATATTGACCCAAAC

[illegible]

ESTD-C7	--	--	--	--	---	---	---	ATATCGTGGCCTTAGTTACCTAGAGCTGGACAAATCCTGCTGGA
ESTD-CB22	--	--	--	--	---	---	---	GGCAAGTTTTTATTGATAGAGAGGAATCAAATAATGGCAATGAGGAGACATCACTGGGAATGTTAG GCAGTGCCTAACTGGGGATGGACAGACAATGGCAGTGCACCACTAGGGCGGATACAAAGAC AGGAAGGAAGGGGTAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAG TAACATAATTGCTTCATTATGGTCTTTCCCGGCTTCTCTCACACAC
ESTD-CB23	--	--	--	--	---	---	---	TAGAACCATCAAAGAGGAATAGGCTGGTGACCCCAAGCAAGGAGGACCTAGTAACATAATTGTGC TTCAATTATGGTCTTTCCCGGCTTCTCTCACACATACAGAGGCCCTACCAGGACCAGACAGCT CTCAGAGCAACCCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAAACAGTGTTCCCAACCCGA GGTGGCTGTGTTTGAGCCATCAGAAGCAGAGATCTCCACACCCAAAA
ESTD-CB24	--	--	--	--	---	---	---	ACCAGGACCAGACAGCTCTCAGAGCAACCTAGCCCCATTACCTCTTCCCTTCCAGAGGACCTGAA AAACGTGTTCCACCCGAGTGGTGTGTTGAGCCATCAGAGCAGAGATCTCCACACCCCAAAAG GCCACACTGGTATGCTGGCCACAGGCTTCTACCCCGACCACTGGAGCTGAGCTGGGTGAATGG GAAGGAGGTGCACAGTGGGTGAGCAGACAGACCCGAGCCCTCAAGGAG
ESTD-CB25	--	--	--	--	---	---	---	GTTTTCTTTCAGACTGTGGCTTCACTCCCGTAAGTGAGTCTCTCTTTTCTCTCTATCTTTCGCCGTG TCTGCTCTCGAACCCAGGCGATGGAGATCCACGGACACAGGGCGTGAGGGAGGCCAGAGCCACCTG TGCACAGGTACCTACATGCTCTGTTCTTGTCACAGAGTCTTACCAAGCAAGGGTCTGTCTGCCCC ATCCTCTATGAGATCTTGCTAGGGAAGGCCACCTTGATGCCGTG
ESTD-CB27	--	--	--	--	---	---	---	TTTTCTGTTCCCTGAAGATTGAGCTCCCAACCCCAAGTACGAAATAGGCTAAACCAATAAAAAAT TGTTGTTGGGCTGGTTCATTCAGGAGTGTGTGGAGTCTGCTCATCACTGACCTATCTTCTGA TTTAGGGAAGCAGCATTCCTTGACATCTGAAGTGACAGCCCTCTTCTCTCCACCAATGCTGCT TTCTCCTGTTCACTGATGGAAGTCTCAACACCACTTCCATACC
ESTD-COL2A1c	--	--	--	--	---	---	---	AGAAATGATATAGTCTCAAACCTGGCCATCTCCATTTTCAGTCCAAAAGTTATACAGCTAGACAACA GTGGTGACATACGTTGCTATTTATGCTCTCTTCTCTGCTCTTTCAGGTGTTCAAGGTGGAAGAGGT GAACAGGGTCCCGCTGGTCTCCAGGCTCCAGGTAAGTCAACTCAAGCATATACATACTGCCTTTG GTCAGCCTATTGAGCTGTAATCACCATACCGTACCT
ESTD-COL2A1d	--	--	--	--	---	---	---	TGAGAGAACACCTAGTCTCCATCCTCTCTCTCAATGGCAAGAAAGTTAAGTGACCTATCTAGGGC AATAGACTGAGTTTGCTGGGACCTGGAACACTGGACTCTTTCTACTGCAGCAGACAGACTTACCC AAGAGAGATTAAATGGCAAGATATACAATACTTTTATTTGACCAACACACTATCATGGAACAGC ATT
ESTD-CPT2	--	--	--	--	---	---	---	GCCGAATGCCCGGAGTTTCTCCAATGTGTGGAGAGGCCCTAGAAGACATGTTTGTATGCCCTAGAA GGCAATTCATCAAAAAGTTAACTTCTGGGCAGATGAAAAGCTACCATCACTTCTCATCATGAAAAC TGGGAGGCGGGCATAGTGTCTATGCTGTAAATCCAGCATTTTGAGAGGCTGAGGGGGTGGATCAC TTGAGGTGAGGAGTTTGAGACCAACCTGGCCAACAT

ESTD- CTLA-4	--	--	---	---	ATGGCTGCCTTGGATTTCAGCGGCACAAGGCTCAGCTGAACCTGGCTACAGGAACCTGGCCCTGCAC TCTCTGTTTTTCTCTCTTCATCCCTGCTCTCTGCAAGCAATGCACGTGGCCAGCCTGCTGTGGT ACTGGCCAGCAGCCGAGGCATCGCCAGCTTTGTGTGTGAGTATGCATCTCCAGGCAAAGCCAC
ESTD- CYP2D6	--	--	---	---	CAGGCCAGCGTGGTGAGGTGGTCAACCATCCCGGCAGAGAACAGGTCAGCCACCCTATGCACAGGT TCTCATATTGAAGCTGCTCTCAGGGTTCCCTTGGCCTGAGCAGGGCCGAGAGCATACTCGG
ESTD- D11S1873	--	--	---	---	AAAAAACATTTTAAACACCTTTTCAATCATATACACCATAAAATTTCCATTTTTCACATAAGTCAGTT TGAGCTGAGTTTTCCAAATTACTTGCAATCTAAATGTCATAACTGATTAATGCAAGTTCAACAGACA ACTTCCCAAGCATCTACGATCAGAAAGGTCAAATATTACATATCTGGATTAAATATTGCCCATAT CTGCATGTC
ESTD- D17S33	--	--	---	---	CATCCCCAAGCCCATCCTTAGCCACTGGCATTTTTTCCGCCCTCTGACAGATACACTCAGGGCCCGT CATGCTGCACACATCCAGGGGGCGCCCTACCCCTTTGTAGTCCATGGGAAAGGCTCCTCTGGGGCGGTG GGTTGTGTGGCTATGTGGTGTCTTGTGTAGACGGGGCTTTGGTTTCAGTTGCACTATTGCGTTATT GCAGATTGCTTTGTCTTCCACCTGAGCGGCCTC
ESTD- D18S8	--	--	---	---	TTTGAGACCACCCTGGCCAACATGGCGAAATCACATCTCTACCAAAATTACAAAATTAGCTGGGTGT GGTGTACATGCTATCGTAATCCAGCTACATCGGAGGCTGAGCAGGAGAATTGCTTGAACCCA GGAGGCAGAGCTTGCAGTGAGCCCAAGATCACACACTGCACCTTACAGCCTGGGTGACACAGTGGAGA CTCTGTCTCAA
ESTD- D3S11	--	--	---	---	AACTGATTAGAACCTGAAAATACATATTTTATCTGAAAAAAGTCGAGTTATTGGCTCATCACATTGG AATTTTGCATCATTAATAAAATCCAAATAAGTACACTGTAATAAGAAATTTAACAGAAATATCATTTGT TTATCAAACCTATTTATCACTATTTTATTGGTAAGCCATACTAAATCTAAAGCATGTTTCTGAAAG TTTTA
ESTD- D3S12	--	--	---	---	AGTTCCACATTATTGCTGATGTTTGTGATGTTTCCAGGAGCCTTGATGTCATCTGTATCTCTCAG GTATCCACCTTGAGACGTACTTTTCAAAGCTCTCTACAGCCGTTGTGTTATTAAITCAAAGTTGA ACATAAAGTA
ESTD- D3S2	--	--	---	---	GATCATGTGGCCCAAGTGGCAGAGCTACTTATACCATGACCCAGACCTGCTAGCAGAACAATTCCTGCG TGAGTCTTATTCAAACCTGACAGCCATTTATGCCACCTGAATATGGTCAGGTTACAGCTGATTCCTCC AGAAGTAAACATACTGCTCCTAGAAAGCCAGAGTCATACTGGAATGTTCTGTTTCGGTCTTCACGATGG CAGGTATGAAATATAATACTGTCTCTTATTGGAAGGATGCCGGTATGT
ESTD- D4S338	--	--	---	---	TTTTCTGTTTACCTTGTTCAGATCCTTCAGAGGAATCCCTATATATGGCAGGTATATGAAATGTATTT CTTAACAATAAACTTGAAGTCCAAAATTACTCCTTGATCCATGGACTGCAGAAATAAATGTTATTT TAGCTGTCAGAAAACAATACTAATCTTGCATATGTTTCATCAGAGCCCTTGGGTGACCAGGTGTATT GCCAATAAGCAGTAATATTTTGAGAGGAATCTGTTTTCATGTCAGTAG
ESTD- D4S95	--	--	---	---	CTTTTCATGCACGATAGGCTTCTCTACTAATCACAGAAATTTTGAGAAGAGCAAAACAACCTTCAAGG ATAATGGGGCAATCACTTTCCTTCTCTCTTTAGAGTCTACCGG

ESTD- D7S399	--	--	---	---	---	TGAATCTTAATTGCTATCTCTACAAAATGTATAAATCTGAACTGTGACATCTAGCCACCTCCATAGAT AACTGCTAGAGACCCAGTCTCTACATCATCTCTTTCACAAACATTTTCATCCATGGACTCCCATACTAG AATATTTGAAGAAACAAACATGACAAACATTTTC
ESTD-DM	--	--	---	---	---	GTGGGACACCGAGGGCTCCAGGCTGGCGCTTGACAGTGTGGCTCAAGCAGCTGCTCGGCCCTCCACT TCCATGGGTGTGGGCTGGACCTCACTGTCCCTGGGAGAGGAGGAGTGGGAGGGAGACA GAATGCTGATTATCTGTGGAGAACCAAGAACTTCTGGCTGTGGTAGGGCAGCTGCTTCCAAGACC TCCTGATTTGAGGAAGGGAGCAGCAGAGCGAAGAGAACAGAGT
ESTD- DRD1	--	--	---	---	---	TCCCAGCCTATCGGTATATTGGACTATGACACTGACGTCTCTCTGGAGAAGATCCAAACCCATCAC ACAAAACGGTCAGCACCCAACTGAACCTGCAGATGAATCTGCCACACATGCTCATCCCCAAAAGCT AGAGGAGATTGCTCTGGGGCTCGCTATTAAAGAACTAAGGTAC
ESTD- DRD2	--	--	---	---	---	TCTGCTTTGGTGCAGGAGGCTGCCCCGGGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCA GCCACCCGAGAGGACCCGGTACAGCCCCATCCACCCAGCCACCACAGCTGACTCTCCCCGACCCG TCCCACACGGTCTCCACAGCACTCCGACAGCCCCGCCAAACAGAGAAGATGGGCATGGCCAAAG ACCAACCCAAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATG
ESTD- DRD3	--	--	---	---	---	AAGACGATGGCCAGGATGAGCGCGCAGTAGGAGAGGGCATAGTAGGCTGTGGCGGGCTGGCTGG CACTGTGGAGTTCTCTGCCCCACAGGTGTAGTTCAAGTGGCCACTCAGCTGGCTCAGAGATGCCATA GCCACAGGGAGGTGGTGATGCCAAGGGCTTCTGTGAGGAGA
ESTD- ERB82	--	--	---	---	---	TCTTTCAGGATCCGCATCTCGCCTGGTTGGGATCGCTCCGCTAGTGTACAGCGGCTCCACCAGCTGG GGTGAGGGGTGGTGTCAGTGCOCGGGGCGGTGCAGACCCACCGGGCTGGGAGGACTTCACCC CGCCTCACCTCCGTTTCTGCAGCAGTCTCCGCATCGTGTACT
ESTD- ETS2	--	--	---	---	---	ACTCACAGTCTTTTAAGTGAAAATGGTCGAGAAAGAGGCAACAGAGCCCGTCTCTGGCGCTGGCA GTCCGTGGGACGGGATGTTCTGGCTGTTTGAGATCTCAAGGAGCGAGCATGTGTTGACACACAC AGACTATTTTAGATTTCTTTTGCTTTTGCAACCCAGGAACAGCAAAATGCAAAAACCTCTTTGAGAGG GTAGGAGGGTGGGAAGGAACAACCATGTCTTTCAGAAAGTTAGTTG
ESTD-F2	--	--	---	---	---	GATAAGTACACTGAGGCCCCAGGAGGTTATTGCTAGTAGCCCAACTGTGCATGACCGTTAACCTCT GCACCAAAATGGCTCCAGGCCGTAGGGGAACCTGGGGGATCTAGGGGATGGGTAGGAATGGCCC AGCCAGTCCCGGCCGTGCTGGGTCCCAACAGAGGAGGCCGTGGAGGAGGAGACAGGAGATGGGC TGATGAG
ESTD-F9	--	--	---	---	---	AGATCCTGATGATTTTTTTCCTATTTTTTCTAAATGTTTTACAGTTTTGAAGTTTTAGATTTATGCCCA TGCTCCATTTTGAGTTAATATTGTGTAAAGTATGATGTTTAAGTCAAACTTCATTTTTTTTTCCATA GGTATGTCCAATTATCCAGCACAAATTTGTTAAACAAAAAAC

ESTD- G0DH	--	--	--	---	---	CGCAGACCGGTCAGTGTGGGGTCGGAGTGTGGAGGGAAGGAGGGAAGAACTGGGGGTTTAGGGA CTTCCGGGGTGACTTTCCTCGTTCTGTGCTTGCAGAGAAAGCGGGGAGAAACACAGAGCAACTGGCTAA GTGTAAAGGGACCTCTGGTGCACCGTGTTCTGCTGCCCCCTGTTCAAGTGTCTGTCTGCGCGCAGTCGA CTCTGTCCCGGAAATCCGAGAGCT
ESTD-GCK	--	--	--	---	---	GTTTTATGCATGGCAGCTCTAATGACAGGATGGTGAGCCCTGCTGAGGCCACTCCTGGTCACCATGAC AACCACAGGCCCTCTCAGGAACACAGTAAGCCCTGGCAGGAGAAATCCCCACCCACACACTGGCTGG AGCAGGAATGCCGAGCGCGCTGAGCCCCAGGGAAGCAGGCTAGGATGTGAGAGACACAGTCAACC TGACGCTAATTACTCAAAGCTGTCCCCAGGTCACAG
ESTD- GNAT2	--	--	--	---	---	GACCTGAGTACCTCCCTAGTGAGCAAGATGTGCTCCGATCCAGGGTCAAACACACAGGCATCATTTG AAACCAAGTTTCCGTCAAAGACTTGAATTCAGGTAAGTGCATGGTCCCTAGG
ESTD- GPPK2L	--	--	--	---	---	AGTCTCATCTCGGGTCCAGGTAGATCCCTTTCAACCGCCGAGAACTGCTCGATATC
ESTD- HRAS	--	--	--	---	---	CTGGGCTGCCCCGACGAGCTGTGGCACTGTGACGGCGGCCAGGCTCAOCTCTATAGTGGGTGCG TATTCGTCCACAAATGCATCTGGATCAGCT
ESTD- HSD3B1	--	--	--	---	---	TTGGAAGTCTCCACTGTTAACCAGTCTATGTTGGCAATGTGGCCTGGGCCACACATCTGGCCTTG AGGCCCTGCAGGACCCCAAGAGGCCCAAGCATCCGAGGACAGTTCTACTATATCTCAGATGACA CGCCTACCAAAGCTATGATAACCTTAATTACACCTGAGCAAAAGAGTTCCGGCTCCGGCTTGATTCC AGATGGAGCTTCCCTTATCCCTGATGTATGGATTGGCTTCCTGCTG
ESTD-HT2	--	--	--	---	---	GGGCTAAATTTCCGAGCAACTTTGCATAGACTGTTTTATTGACTTGACAGGATGTCTAGAGATAGG CAGGAGAGGAAGATGTGTACAGTTTGTACAGAGATAAAAGGATAACCTGGGGTTTTCTGTGC TTTGCTTCTTCACATCCCCTGGGAGTTAATAGCTGCAATTTTCAAAGAACGGTATACAGGGACAGCA AAGCGCAGTCGTGAAGTTTCAAACAAGACACACCTT
ESTD-HT4	--	--	--	---	---	ACCAACGAGCCGCGATACAGACACTCTTAAGTTTTGCCCTAAGGCTCATTCAAATCATTAGGCATTTT CTGATAAACTAGGTTCTTGGTGCCCTCTATCGCAAGAATCGTACTTATTTGAATAGTAGAGGTAA ACCACAGCCCCAAGATCACTGAGACTGGCAGCTTCTGCAGCAGGCGTGAACCCCGTAGCCTAAA TGACAGCCGAAGAGGCGCCGAAGACATGCAGATGTGC
ESTD-HT5	--	--	--	---	---	AACACAAAGCCCCAGCGAGAAATTGAACCTCGCAGCCCCCTGGTTTACAAGACCAAGTGTCTTAACCCCT GAGCTATGGAGCCCTCGTCTGCTGTGGTTTTCTCCTTTTCATCTTATAGATTGATTTATGCTCTTA GCATTCGGGCTACCGAATAGGATGTAGCTTGAGTAAATTCAGGATATTCCTCTACAAAAATGAAA ACATTTTCGTCTCTGTAATCCCTCGAAAAGTTCT
ESTD- GFBP1	--	--	--	---	---	ACCCAGTGGAGCCCGCTCATTTGCACGGTCTTGGCAGGAGGTGCCCTGGGAGAAGGAAGATGTTC CAGGGCACACATAGCTTAGTGGAGACTC

ESTD- IGHV4-6	--	--	--	--	TTTACTATTTCAATGGATACAGAAATTGTGGGAGTCACTATATTCCTATGAACAAAAATTCAGATTT CAGTGTTAAGTAATGTTGCCTACATGTTGTGAGTGACGGGCGAGTGGTGATCCGAGAGTGTGGTGG TGCACGGACATAATGATTCAGAAAGCAATATGGAAAGATGAGTATCTATGGATACGAACCTGAAAGT ATGTAATAACTTCACAAAATACTAATAAACGGAGTTGAATATAAAACCCA
ESTD-IL1A	--	--	--	--	CAAAGTAAGCACCCCAATAAATGTTAGCTATTACTATATCAATTATTATTATTATTTATTTTTTG AGATGGAGTCTGGCTCTGTACCCAGGCTGGAGTGCAGTGCACAAATCTCGGCTCACTGCAAGCTCTG CCTCTGGGTTTCATGCCATTCTCTGCTCAGCTCCGAGTAGCTGGGAATACAGGCAACCCGCCACT GTTCCCGGCTAAATTTTGTATTTTGTAGTAGAGACGGAGTTCACCCGT
ESTD-IL1B	--	--	--	--	CCACTACAGATGGATAAATGGGTACAATGAAGGGCCAAATAGCCCTCCCTGCTGTATTGAGGGTGT GGGTCTACCTTGGGTGCTGTTCTCTGCTCAGGAGCTCTGTCAATTGCAGG
ESTD- KRT10	--	--	--	--	CCAAAGTTAAATAGTATTGGAGTTATCTGAGAAATTTCCATGTCAGTGTACCTTTTGGCAATATT AAAGGAAGAAAAATGCATTTAAAGTAACCTGCTAAGGTTTTTCCATTAAACCCTATTACTTTCTAAG AGAACTGTACATGACAAAATATTGCCATTACATGAGATCAACTATGAGCTGCTTTTAAATAGTCTC TGCCAGATACATCTCCCTATATAAGTTATAACCAAGTATTGATA
ESTD- KRT8	--	--	--	--	ACCTCACCCCTCCCTTAGCCGTGGGAAGCAGGAAATCTCTCCAAATCCATGAATACACATCGG ATTGGACACCTTGAGAGCTTTAAGCAGGCGCTGACATGAGACCTCAGACAGAACTTTCTAGAGTT TGCTAGAGGTCAAGGTCAAGACTAAAGAGGGGCCAGATGTTAAGTACAAAAGTGAGGCCCATAG GCTGCTATCTCTCCGCTCAGGTTTACCACGTCAACATTGACACA
ESTD- LF79	--	--	--	--	GGGTGATTTGAGGCTCAGTTAATTTCAAAATTGTAACCGTAGCAAAACGCTGATTGGTATTAGA AAAAATAAAAAATTTCCAATATGATGCTGTGTTATACCTGCTGCTGCCATGCAGCATCATAGCCTGT GGGAACCAAGGAGGCTTCCCTTACCACCCAGA
ESTD- LMP2	--	--	--	--	TACACACTTTCCTTACCCATTCACTGAAAACGACTCGCAAACTGGAGCCTTGTAGGAATGGAGTTGA CCTTCCCAAGGCCACTATGATAAGCTATTGGTG
ESTD-LPL	--	--	--	--	TGTCAGTGTCCCTAGGGCACCTCACCACTCCAGCTTCTCAGCTCTGGCTGTCTGCTGCTGCA AGGGTTTGTCTAATCTCAATTCATGCTCTTTCATCTTTTAGCAGCTGTGGGTTTTGTTGTTTC TTCGTTTTTGCTTAGTATCTGACTACTTTTAAATTATAAAAGAGATGTATCTAAACAAAAATAGAG ATTGTTATCAGAAGTTCACAACATTTTATAAAATTTTTCACCTG
ESTD-MCC	--	--	--	--	TTGTCAGGAGTGTCTGATGCTGCTGCCCTCCCGAGCTCTGTCCCTAGCCGAACCTCAGGACAACGTGCAG CATCCATGTAGGAGAGCCTTAGTCAAGTGAATGCTGAGGAGCAGAGTAACAGCATGCATCCCCGAA TCTCAGGAAGTCTCTGCTTTCCAAGGGTTTGGCTAAGTTGCTGATTACCCCGGATTTTCTGACGATC TTTCAACTGCTAGAGCATCTGGTTCTGTTTAGCATGG
ESTD-NF1	--	--	--	--	ATTATCCAGATGAATTTACAAAACTATACCAGATCCACAGACTGATATGGCTGGT

ESTD-NFKB1	--	--	---	---	AAATGGACTTGTATATTTGTACAAAAAAGTTTTATTTCTAAAAAAGAAAAAGAAAA AAATTTAAGGGTGTACTTATATCCACACTGCACACTGCCTAGCCCCAACGCTTATTGTGGTAGG ATCAGCCCTCATTTTGTGCTTTGTGAACCTTTGTAGGGACGAGAAAGATCATTTGAAATCTGAG AAACCTCTTTTAAACCTCACCTTTGTGGGTTTTTGGAGAAGGTTATCA
ESTD-NPPA	--	--	---	---	TGTCCTAGGCCCCAGCCCTGCTTGTCTCCTCCCTGGCTGTATCTTCAGTACTGCAAGAGAACACAGAC AT
ESTD-NRAMP	--	--	---	---	GGAGGAGGAGGTGGGAGGGGTCTGTCTCTCCAGGTCACAGACCAGAGAGGCGCCTCAGTG TATCCCCACCCCCAATGTGGCGCTGGAGATGAAGAGGAGTTGATGCAGGT
ESTD-NRAS	--	--	---	---	GTGTTTTCTTAATCTTTCCAGGAACACAGTGACCATAATTTCTTTCTGCAGGCATATAGAAATTTGGT GGTTTTCTTTATGTAGGGTGATATTGGATACTTTTGTGTGATTATATATTAGCAATTTGAGGG ACAAACCATAGGCAGAAATGGCTTGAATAGTAGATGCTTATTTAACCTTGGCAATAGCATTTGC ATTCCTGTGGTTTTTATAAAAAAT
ESTD-OTC	--	--	---	---	GTGACCTTCTCACTTTAAAAAATTTACCGGAGAAGAAATTAATATATGCTATGGCTATCAGCAGA TCTGAAATTTAGGATAAAACAGAAAGGAGAGGATGTAACA
ESTD-PAI1	--	--	---	---	GCCACCACCCACCCACACACCTCCAACTCAGCCAGACAAGGTTGTGACACAAGAGAGGCC TCAGGGCACAGAGAGTCTGGACACGTGGGAGTCAGCCGTGTATCATCGGAGGCGCGGCAC ATGGCAGGATGAGGGAAGACCAAGAGTCCTCTGTTGGGCCAAGTCTCTAGACAGACAAAACTAG ACAATCACGTGGCTGGCT
ESTD-PAR	--	--	---	---	CTCTCAGAACCCAGCTCTTACCAACACGACTTATGCTGTCCGAGAGGTACAACCCGTAGA ACTTCTCCTAACTGTAATTTAGTTAAAGGAATCGAACTGGCTCTGAAGACATGGAGATACTGCCT AATCGACTGGCTTTCATTAGCTCTGTGAGTGTTCCTTCACCTTTCTGTGTTCTAGAACGTTTTCTAG GACTGGCAGTTAAGCTTTCACCTAGGCTTCTGTATACCCATGCCC
ESTD-PBDA	--	--	---	---	CCTTCTCATGCCAGATGGAAATTCAGTCCCTCAGGATCTGCCTAACCTGTGACAGTCTAAAGAGT CTGAGCCGTGGCTGGGAAGGCGAGGACTAATCCAAATCTCTACCCGACGTTGCTCGCATACAGACG GACAGTGTGGTGCAACATTGAAAGCCTCGTACC
ESTD-PS-1	--	--	---	---	GGGAGTAAACTTGGATTGGAGATTTCATTTCTACAGTGTCTGGTGGTAAAGCCTCAGCAACA GCCAGTGGAGACTGGAACACACATAGCCTATTTCTAGCCATATTAATTTGGTTGTGCCCTACATT ATTACTCCTTGCCATTTTCAAGAAAGCATTTGCCAGCTCTTCCAATCTCCATCACCTTTGGGCTGTGTTT CTACTTTGCCACAGATTATCTTGTA
ESTD-PXMP1	--	--	---	---	ATGAAACATGGTCTTTAATTTATGATATGTTTGTATAGCTATCTTAAAGGGCTCTCTTTTTTTA ATGCAGAAAGAGGGGAAAAAGCGAGCTGTGGTGGACAAGGTGTTTTCTCAAGGCTCATACAGA TTCTGAAAATCATGGTCCCTAGAACATTTTGTAAAGAGGTAAGTCTTAIGAAATTAATCTT
ESTD-Per/RDS	--	--	---	---	ACCTACAGACGTCGCTGGATGGTGTGTCCAAACCCCGAGGAATCTGAGAGCGAGAGCGGCTGGCTG CTGGAGAAGAGCGTCCCGGAGACCTTGAAGGCT

ESTD-RDS	--	--	--	---	---	CCCGAGGAATCTGAGAGCGAGAGCGAGGGCTGCTGCTGGAGAGAGCGGTGCCGGAGACCTGGAAGG CCTTTCCTGGAGAGTGTGAAGAGCTGGGCAAGGGCAACAGGTGAAGCCGAGGCGCGCAGACGCAGG CCAGGCCCCAGAGGCTGGCTGAGGGCCCTGGGGCCCTCCCTCCCGAAGACTGAGAAATAGTGCAC CCAGAAACGTGGATCTCCCCCTCATCCAACCTCCGAAAGTCTGAA
ESTD- RYR1	--	--	--	---	---	CTTCGTGACGGGAGGTACGTCCTCCGCCCTCTTTCATGGACATATGGATGAGTGTCTGACCATTTCCC CTGCTGACAGTATGACACGCGCAGACTTGTCTACTATGAGAGGGGAGCTGTGTGCACTCATGCCCGC TCCCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGAGCCACCTGCCGTGGGGCCAGCCACT CCGAGTCCGGCATGTCACTACCGGGCAGTACCTAGCGCTCAACGAGG
ESTD- SPTB	--	--	--	---	---	TGAACACCTGTGGTCCGGAGCCAGGTTGTGTTCTCCTGGAGCCCTGAGGAGTTGTGTGTGTG CAGTCCCCCGCGCCACCTGCTGTTGAGCCTGGACATACACCTTACCTCCTTTGGCCCGGAGAAAGAC ATTTACCCACCTGGCCATGTCCCTGGCCTGTTGTGCACACCTCTGTGAAGACCCCAACCCCTGCCCTCC CCACCCCAAGCCAGTTTCTAGCAAGGGCAGGAC
ESTD- SSA1	--	--	--	---	---	TTCACTTTGTGGATTGTTCTTTTGTCTGTGCAGCACCTTTTCAACATGATGTGATCCCATTTGTCCAAG TTTGCTTTGGCTGCCCTGCTGTTGTTGGGATATTGAAAGAGATCTTTGCCAGTCCAATGTCTTAGAGAG TTTTCCCAATGTTTCTTGTATATAGTTTCATAGTTTGAGGCCCTTAGATTAAAGTCTTTAATCCATTTTG ATTTGATTTCTGTA
ESTD-TAT	--	--	--	---	---	AAATGGTCAGGACCCCTGATCCACAAGAGTGGTACCATTTTCATCAGGGCCATCAGTTCATTCAGCTC CCATGACTGGGATGCTAAGTCAGCAACTGAGTTCATTCATCTTAAATGACTTGTGGGACAGGATCA ATTTCTCTCACCTAGAACGTTTGTTTACAACITTTCTCCAGTATGGATGGGATATGATGGGGGG GAGAAGCAAAATTTAAATAGGACCCATGAGACACATCA
ESTD- THRB	--	--	--	---	---	TGCGGCTTTCTCCGGCAGGGTAGACTTCTTACTTGGCTGTGATTTCCAGAGAAAGAGTCCCAAG CACACGAAACAGAAAGTTGCAGATCCCATGAGGCCAGTCTCAATCACACAGGATCACTTCATCCA CACTGGATTGGCCCAACAAGTCTGAGTGCCAGCCAGGACTCAACGGTCCCTGTAGATGGG
ESTD- TNFA	--	--	--	---	---	TTCTGCATCCTGTCTGGAAGTTAGAAGAAACAGACCACAGACCTGGTCCCCAAAGAAATGGAGG CAATAGGTTTGGGGGCATGAGGACGGGTTGAGCCTCCAGGGTCTACACACAAATCAGTCAGTG GCCAGAGAACCCCTCAGAATCGAGCAGGAGGATGGGAGTGTGAGGGGTATCCTTGATGCTT GTGTGTCCTCCAACTTTCCAAATCCCTCCCGCCCGCGATGG
ESTD-TYR	--	--	--	---	---	TAGTGAAGTTTTCATCTCCTGTGAGCTTCTGGATTCTTGTTCACCCGCAACAAGAGTCTATGC CAAGGCAGAAAGCTGGTCTTCATGGGCAAAATCAATGCTCTCCAGATTTCCAGATCCCCCAAGCA GTGCATCCATTGACACATAATAATGCATCCAGACAAAGAGGTCAATAATTGATGTGCGTTAAACAT GGGTGTTGATCCATTTTTCATTTGGCCATAGTCCCTATGGGGATGACA

-300-

ESTD- TVRP1	--	--	---	---	---	AGTAGTGATGAAGCTAACCGAAGCTCTCCTCACTGATCAGTATCAATGCTATGCTGAAGAATATGAA AAACTCCAGAAATCCTAATCAGTCTGTGGCTAACAAATGCCCTACTCTCTTATGCATTAGTATCACAA AACCACCTGGTTGAATATAATAGATTGAGTTAATTAAGTGTATTTCTTTCACCTTATTACCTTCTTTCT AATACAAGCATATGTTAGAAATTAAGTTCTAGGCATACTT
ESTD- VB12	--	--	---	---	---	TTCCCAAGGCTCAATACAAGTCTTTTCTTGGGATTACAACATCAGGGTCTGTGTTTCTTATTACA GGACATGGATGCTGGAATCACCCAGAGCCCCAAGACACAAAGGTACAGAGACAGGAACACCCAGTG ACTCTGAGATGTCACCGAGACTGAGAACCCCGTTATATGTAAGTGTATCGACAAGACCCGGGGCATG GGCTGAGGCTGATCCATTACTCATAT
ESTD-VWF	--	--	---	---	---	AGGTAGGAAAGCAAGAGTTGATTAGTGAAGGAGAGAATGGAACCTACCTCCACACTGTCCTTTGG TCCCTAGAGTCTG
ESTD-WT1	--	--	---	---	---	AAGACCTACGTGAATGTTACATGTGCTTAAAGCCTCCCTTCTCTTACTCTCTGCTGCAGGATGTG CGACGTGTGCTGGAGTAGCCCCGACTCTTGACGGTGGCATCTGAGACCAGTGAGAAACGCCCTT CATGTGTCTTACCCAGGCTGCAA
ESTD- s14544	--	--	---	---	---	TTGGGAAGTTAGAGCTATATTAATTAACGGAATTACTAAGGCAGGACACAGAGGCTTAATTGAAAA TATCCCAAAGTTGAAATGTCTCAGTTCGCTGTGTGGTTAGATGCAGGATTTATATGATCCGTTAACCC TCT
EST71770 6	--	--	---	---	---	AGCACCACTCTCAGTCAAGCCTCAGCACAGATGCTGTCTATAAGGATGACGTGTTTACAA CATCTCCTCCATGAAGAGCACAGAGATTATTTATTCCTGAAGTCCGGATCTATGACTCAGGGACAT ATAAATGTACTGTGATTGTGAACAACAAGAGAAAACCACTGCAGAGTACCAGCTGTTGGTGAAGG AGTGCCCAAGTCCCAGGGTGACACTGGACAAGAAAGAGGCCATCCAAGG
EST52418 6	--	--	---	---	---	CAAATTACAGGGTCAACTGCTATGATGTGTTGGAGCCCCAGTCACCCCTTGGTGGCTACAAGATGTCG GGGAGTGGCCGGAGTTGGCGAGTAGCGGCTGCAGGCATACACTAAAGTGAAACTGTGAGTGTGG
EST13586 3	--	--	---	---	---	CCCCTCTATTTGCCAGCCCCAGGGACAGAGCTGATCCTTGAACCTTTAAGTTCCACATTGCCAGGA CCAGTGAGCAGCAACAGGGCCAGGGCTGGCTTATCAGCCTCCAGCCAGACCCCTGGCTGCAGACAT AAATAGGCCCTGCAAGAGCTGGCTGCTTAGAGACTGCGAGAAGGAGGTGCTGCTGCTGCCCTGCCCG GTCACTC
EST51976 7	--	--	---	---	---	AGGCAGAAACTGGGCCCCCATCGGGGGGACGTGGAAGGCCACTTGAGCTTCTCTGGAGAAGGACCTGA GGGACAAGGTCAACTCTTCTCAGCACCTTCAAGGAGAAAGAGAGCCAGGACAAAGACTCTCTCCCT CCCTGAGCTGGAGCAACAGCAGGAACAGCAGCAGGAGCAGCAGGAGGAGGAGGAGGATGCTGGCC CCTTTGGAGAGCTGAGCTGCCCTGGTGC

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EST11458 6	--	--	--	---	---	CCACITTTGGTAGTCCAGTGTGACTCATCCACAATGATTTCACAGTGCTCATCTTGTGTTCTCGAGTTT CTCTGCCATGTTGCTATTGCAGGACGACCTGTGCCAAGCCAGATGATTTACCATTTTCCACAGTGGT CCCATTAAAAACATTCTATGAGCCAGGAGAAAGATACGTATTCTCTGCAAGCGGGCTATGTGTCC CGAGGAGGGATGAGAAAGTTTATCTGCCCTCTCACAGGACTGTGGCC
EST39852 8	--	--	--	---	---	CGGTCTTCCCTCCAGGTATTGTTGCAGAAGGCCGAGATGACCTCTATGTCAGATGCATCCATAAG GCATTCTTGAGGTGAGTACACCTTCCCACCTCTTACGGTACAGAAAGGAGATGCATGAACAGCA GGAACACGTGGAAAAGCCCTGTTTCCAGTGTTAAGGCATGCANAAGCCCTCCACAGGCTGCTATAAT ACAGCCCT
EST62448 0	--	--	--	---	---	ACCTGGTGTGCTGGTGTGGGTGAACCTGGTCTTGGCATTGCCGCCCTCTCTGGGCCCTCTGG TCCTCTGGTGTGCTGGGTAGTCTGGAGTCAACGGTGTCTCTAGTGAAGCTGGTCTGATGGCAACC CTGGGAACGATGGTCCCCCAGGTCGGATGGTCAACCCGGACACAAGGGAGAGCGGGTTACCCCTGG CAATAT
EST36027 2	--	--	--	---	---	AGTGACTTCCAAGGAAATGGCTACCCAACTTGCCTTCATGGCCCTGCTGGCCAACTATGCCTCTCAGA ACATCACTTACCCTGCAAGAACAGCATTGCATACATGATGAGGAGACTGGAACCTGAAAAAGG CTGTCACTTACAGGGCTCTAATGATGTTGAACCTGTTGAGGGCAACAGAGGTTCACTTACACT GTTCTGTAGATGGCTGCTCTAAAAGACAAATGAATGGGAAAAGACAA
EST12274 0	--	--	--	---	---	CCCCAGTTGACAGCCACTGCTCTAGACTAAGTTTCTTGCCTTCCAAATAGAGCCCTTACCAAAGTGTAT TACATAAAGAAGTCAAGTGGTTTACTCCTCATGACCAAAATATCTTCCCTCCTTAGGATGAGGTGA TAGTAAATGACCGATGGGTGAGAACTGTTCTGTCAACATGGAGGATACTATAACTGTGAAGATAA ATTCAAGCCACAGACTTGCCAGATC
EST76807 7	--	--	--	---	---	ATGCTAAGGGGATCGGACATGAAAGGACCTGTGAGCCGATTGTCTATCTCCAGCGGCCCTGTCTATC CAGCTCACTCATCAATGGGGCCAGTCAGGCCAGGCACTGGGCTCCGGAGGACTCACCACTGCCCCCT GCTGCCATGTGGACTGGTGCAAGTTGAGGACTTCTTG
EST44438 7	--	--	--	---	---	GCAGCCAGGAGCCGCTGCACCATGCCCGCATAGATCGGACCTCAAGCTCGACTTCAAGGAGCTCCT GCTCCGACTAAGCGGAGCAGCCTCAAGAGCCGAGCGGGTGGG
EST12839 3	--	--	--	---	---	TGCAAAACACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAAATATGGTCCCTTTGCT CCTAACATCTATGTACTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAAGG CCATTGGCTATCTCAACACTGGTGGATGATTACTTGAGTAAGGAAACTTGAATGTTATTCAACTGG ATTTCAGTAGGTTTCAGTTACTTATGAATATTATGATACCTTAGCTTAG
EST54419 8	--	--	--	---	---	CTTCTGCCCTAATTTGAATGATATTGTTGCTGTGGGACCTGAGCACCTTTTATGGCACAATGATCACTA TTTTCTTGACCCCTACTTACAATCCTGGGAGATGATTTGGGTTTAGCGTGGTCTGATGTTGCTACTA TAGTCCAAGTGAA

EST10398 2	--	--	--	---	---	---	TGCCTGGGTGGCAAGGCTGCAAAACAAGGAGGCAACCCAGGAGGCTTTTATGAAGGGGCCATGGTA AGATGCTGCCACCTCTATCTACTTGATGATGTTTCACATTGGGGCTTGACCTTCCAAACACGGAGAAG CATTGTTTCTTCGGGCCAAGAAGGTATCTACCAATAGTGCTATTAGGCAATTG
EST36751 7	--	--	--	---	---	---	CCAAAGTCGTTCAATTTAGCTTTGCAGGTTTAACTCGATTACTTTTCTATTCAAATCTCTGTAAAA TTGAAATATGAACCTAGTTTCTGATCTATGGTTCAAGTTAAACAG
EST40562	--	--	--	---	---	---	CACGTGAAAGGAGCTATTTTGGAGGCTTTAAGAGTAAAGAACTCTGCCCAAACCTTGTGGCTGAC TTTATGGCTAAGAAAGTTTCACTGGATGCATTAATAACAAATATTTACCTTTTGAAAAATAAATG AAGGATTGACCTGCTCGCTCTGGAAGAGTATCGGTACCGTCTGACGTTTGTGAAACAATACAGAT GCCTTCCCTGTAGCAGTTTTCAGCCTCCTCTACCCCTA
EST18288 3	--	--	--	---	---	---	GCTCTATACCCCTGTGGTCTCCACGCTCTCTGGACTTCACAGAACTGGATGTTGCTGCTGAGAA GATTGACAGGTTTCATGACGCTGTGACAGGATGGAAGACTGGCTGCTCCCTGACGGGAGCCAGTGTGG ACAGCACCTGGCTTTCAACACCTACGTCCACTTCCAAGTAAGGCAAACTCTCTGCTGCTGCTGGC CCTAGGACTTAGTATOC
EST70523 3	--	--	--	---	---	---	TTCCCGCAGCCCCCATCTTGGCACCTTGGTCCCTCAGGGGCCACCCCGCGGCACTCACCCGCTCT CGCTCTCGGTAAACATCCGGCCGGCGCGCTCTTGACACATAGCCTGGACCGTTCCGTATAGGAGG ACCGTGTAGGCTTCCGTCCCGGGCTTCCAGGGGCCAGCCCTGCAGAGAGAGGGTCCCTGTGGT TGAGCTGAACACAGCTGTGGAGTGTCTCCACGCTG
EST58707 7	--	--	--	---	---	---	CAGTGATCTGAAAGCTACAGGACACCAAAATAACCTTAATCATCAATTGGTTACAGGAGCTTT AAGTTCAAGCATCTTTGGCTCACATGAAGGCCAAATCCGAGAGACCTTAGAAGATACACGAGACCGA ATGTATCAATGGACATTCAGCAGGAACCTTCAACGATACCTGTCTCTGTAGGCCAGGTTTATAGCA CACTTGTACCTACATTTCTGATTGGTGGACTCTTGTGCTAAGAACCTT
EST74167 6	--	--	--	---	---	---	AGACCATGAAGGAGTTGAAGGCTACAAATCGGAACCTGGAGGAACAACTGACCCCGGTGGCGGAGG AGACGGGGCACGGCTGTCCAGGAGCTGCAGGGCGGCGAGGCCCGGCTGGCGCGGACATGGAGGA CGTGGCGGCGGCTGGTGAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGACCGGAGGAGC TGCGGGTGGGCTCGCTCCACCTGGCAAGCTGGTAAAGCGGCTCCTC
EST43211 8	--	--	--	---	---	---	CGCCTGGTGAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGG CCTCGCTCCACCTGGCAAGCTGCGTAAGCGGCTCTCCGCGATGCCGATGACCTGCAGAAGCGCC TGGCAGTGTACAGGCGGGCGGCGAGGGCGCGAGCGCGGCTCAGCGCCATCCGCGAGGCGGCTG GGGCGCTGTGGAAACAGGCGCGCTGGGGCGCGCAGCTGGGGCTC
EST36770 4	--	--	--	---	---	---	TGTAGCCAAAGTCACCTGCATCATCATTTGGCTGCTGGCAGGCTTGGCCAGTTTGCAGCTATAATCC ATCGAAATGTATTTTTCATTGAGAACACCAATATTACAGTTTGTGCTTTCCATTATGAGTCCCAAAAT TCAACCCCTCCGATAGGCTGGGCTGACCAAAAATATACTGGTTTCTGTTTCTCTTCTGATCAT TCTTACAAGTTATACCTTATTGGAAGGCCCTAAAGAAGGCTTATG

EST26021	1	---	---	---	---	TAATGTAAGCTCATCCACCAAGAAGCCTGCACCATGTTTTGAGTTGAGTGACATGTTCCGAACCTGTTCCATAAAGTAATTTGTGAAAGAGGCAAGAGAACATTCTCTGCAGCACTTCACTAGCCAAATGAGCATTAGCTACTTTTCAGAATTGAAGGAGAAAAATGCATTATGTGGACTGACCGACTTTTCTCTAAAGCTCTGAACAAAAAGCTTTTCTTTCTTTTGCACAAGACAAAAAGCAAGCC
EST51212	0	---	---	---	---	ATCCTGAGCTCGCCAATAAGCTTCTTGGTTCTACTTCTCTCTCCACAAGCCCCCAATTCACATTCTCAAGAGAAATCCCAAGCTTAGGAGCCCTGGAGCCTTTGTGCTCCCACTCAATACAAAAAGGCCCTCTCTACATCT
EST20118	2	---	---	---	---	GTTCCGAATCCTCCTCCTGAAAGTGGCCGGGTTTAACTGCTCATGACGCTGCGGCTGTTGGTCCAGCTGAGTGAAGGCTTGAAGCTGGGAGTGGGTTTAGGACGCGGCTCTGTGGTGCATCCTAAGCTCTGAGCAAACTCCTCCTTTGAAGCTGGGAGTGGGTTTAGGACGCGGGTCTCTGCGTGCAATCCTAAGCTCTGAGA
EST53018	6	---	---	---	---	ACAATCCAGGTACACATTCCAGAAGAGGAGGGTGGTCACTGAGCCTGGGTAGGTCAGTCCAGTAATCCAAGGATTGAGGAAGGAGGCCACGAGGATCGAAGTTAGTGAAGTC
EST68787	5	---	---	---	---	CTTCCTATGGGATTTGACTTTATTTCTCCATTGTCTTACCTTTACAGGTGTTAATATAGTGAAGAGGAGCTTGCACTGACAAATTTGAAGCTGACAAATTACACAAGAGGAATAAATTCACAGTCAAAGAATCAAGCACTTTTCGAAACATTGAAGTTGTTTTGAAGCTTGGTGACCTTTAATTACAACCTAGCAGACGGAACTGAACCTCAGGGTAAGAAAT
EST34088	2	---	---	---	---	GTGGGGCAACAGTGGGAGAGAGGGGCCAGGGTATAAAGGGGCCACAAGAGACCGGCTCAAGGATCCCAAGGCCCAACTCCCGAAACCACTCAGGGTCTCTGTGGACAGCTCACTAGCTGCAATGGCTACAGGTAAG
EST37382	5	---	---	---	---	CTGAGAAACAATTGGCAAAATAAAGGAATTTGGCACTCCCCACCCCTCTTCTCTTCTCCCTTGGAATTGAGTCAAAATTGGCCTGGACTTGAGTCCCTGAACCAGCAAGAGAAAAAGAGACCCAGAAATCACAGGTGGGCACGTGCGTCTACCGCCATCTCCTCTCACGGGAAATTTTCAGGGTAAACT
EST74082	---	---	---	---	---	TCAGGGTGGCTGGACCCAGGCCACAGCTCTGCAGCAGGGAGGACGTGGCTGGCTCGTGAAGCATGTGGGGTGAGCCAGGGGCCCAAGGCAGGGCACCTGGCTTCAGCTGCCTCAGCCCTGCCTGTGCACCCAGATCACTGTCTTCTGCCATGGCCCTGTGGATGGCCCTCTGCCCTGCTGGCGCTGCTGGCCCTCTGGGGACCTGACCCAGCCGACGCTTTGTGAACCAACACCTGTGCGG
EST45311	---	---	---	---	---	GCCCTCCTCTCTCCAAATTCGTGCCCTATAGTTTTCCCTCTATTAAAGTGAACATACATGCAATCTTTTAGTGGATAGATGCACACAAACACACAAGCCATTATGGGAAGGATCCACGTGTGTGGCCATATTGTAACAATTCTCTGCAAAATCACCTCTTTTCATTTAACAGCCCTTATTCATATGGCCCTTTTCTTTTTCAGTAGTACATACATCTGTGTCATTGTGAAT

EST65258 8	---	---	---	---	---	TGCCCCATCAGCGGCGGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCCAGAAAT CCAGTTATTTCCACCCTCAAAATGACAGCCATGGCGGCGGGTGCTCTGGGGCTCGTCGGGGGG ACAGCTCCACTCTGACTGGACAGCTTTTGCAATGGAGACTTGAGGAGGAGGGCTTGAGGTTGGTGAG GTTAGGTGCGTGTCTCTGTGCAAGTCAGGACATCAGCTGATTAAA
EST38216 3	---	---	---	---	---	ATGAGGATGAAGGTGGACAGGAGGAGAGGGCCAACTGTCTATCCAGGGCCTGCAGATGTCGCTG GACTATGGGTTTGTGACCCCACTGACCTCCATGAGCATCAGGG
EST62782 2	---	---	---	---	---	ATACTAGTACAAGTGGTAATTTTGTACATTACACTAAATTAATAGCAATTTGTTTAGCATTACCTAA TTTTTCTCTGCTCCATGCAGACTGTTAGCTTTTACCTTAAATGCTTATTTTAAATGACAGTGGAAG TTTTTTTCTCGAAGTGCCAGTATCCAGAGTTTGGTTTTTGAACCTAGCAATGCCTGTGAAAAA GAACTGAATACCTAAGATTCTGTCTTGGGTTTTTGGTGCATGCA
EST35879 9	---	---	---	---	---	GAGTCGGTGTGTGAGTTATTAGGCATGGTTACCTGTGATTCTCCCAATCTTGCGTTCCACCGATG GAACTCGCGGCAATCCTGACACGTGTGCAACCCAGGCTGTACCCAATTAGGTGAACATGGCTTCGAG AGAGTTGAACAGATTCTCTGGAAGACAGCAGCGGGATGGGGCAGGAGAGCTGCTGGATGAA
EST68308 5	---	---	---	---	---	GGAAGAGATTTAAGAAGCTTGATTGGACAATCTCTGGTTCTTGAGTGTGGAAGAGTTTCATGCTCT GCCTGAGTTACACAGAACTCTTGTAGTACAGCAGTAATAGATATATTCACACAGATGGGAATGGA GAAGTAGACTTTAAAGGTAAAGTAGTATTTTTTA
EST54045 6	---	---	---	---	---	GGAATTTAAAAATATTTAAATACCTCCATTTTGCTTATCTCTTTAGTGAAGATGATACCTGCAA AAGACATGGCTAAAGTATGATGTGATGTTGGCAATTTGTTTCTTACAAAATCGGATGGAAATCT GTTAAGTAAGTACTGTTTGGCTTGGAAATTTGATTTTAAATGTTGACTTTATCAT
EST52908 0	---	---	---	---	---	ATCACAGGTCTCTGGTCTCTGCGCATCTTCTCTGGGAGAGATGGTGGTCTGCAAGCCCTTTGG CAATGTGAGATTTGATG
EST19590 --	---	---	---	---	---	AGGAGAAGCTGAGGAGGGGGAAGAGAGACAAGATGACATTGATGATGAAGATGTCGGCTCAGGAT GCCGGAAAATGAC
EST76136 --	---	---	---	---	---	TGAAGCTTCTGCCAGCTTGCAATTTCTTAGGAGAACCCGCTCATACCTTTATCTATAGCCTTCCCC TAGGTCTT
EST58607 0	---	---	---	---	---	CTCTGGATGGGTTACAGGTGGCAGGCACAGCCAGTCCATCTGTAGTCATCATAGTTGTGGCTCC CAAGTTGCTCTCTCACTGAGAACAGGACAGCACATGGCGGGATGGCCGGGGAGTCTGGT TGCGCCACGGCTGTGGCTCGTTGTGAACGGTAGCCTTTGCGGTTGCGATGCCTAAACCTTTGTTCT TGCCAAAGGAGGGGGGTGCCATGCCTGAGATGTAGATGGGCC
						Legend: 1=Marker 2=PM Position 3=Reference Allele 4=Altered Allele 5=SNP Forward Primer 6=SNP Reverse Primer 7=Sequence

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EQUIVALENTS

While this invention has been particularly shown and described with references to preferred embodiments thereof, it will be understood by those skilled in the art that

5 various changes in form and details may be made therein without departing from the spirit and scope of the invention as defined by the appended claims. Those skilled in the art will recognize or be able to ascertain using no more than routine experimentation, many equivalents to the

10 specific embodiments of the invention described specifically herein. Such equivalents are intended to be encompassed in the scope of the claims.

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CLAIMS

WE CLAIM:

1. A nucleic acid segment shown in column 7 of the Table,
or a portion thereof which includes a polymorphic site,
5 or the complement of the segment or portion thereof.
2. The nucleic acid segment of claim 1 that is DNA.
3. The nucleic acid segment of claim 1 that is RNA.
4. The segment of claim 1 that is less than 100 bases.
5. The segment of claim 1 that is less than 50 bases.
- 10 6. The segment of claim 1 that is less than 20 bases.
7. The segment of claim 1, wherein the polymorphic site is
biallelic.
8. The segment of claim 1, wherein the polymorphic form
occupying the polymorphic site is the reference base
15 for the fragment listed in the Table, column 3.
9. The segment of claim 1, wherein the polymorphic form
occupying the polymorphic site is an alternative form
for the fragment listed in the Table, column 4.
10. An allele-specific oligonucleotide that hybridizes to a
20 segment of a fragment shown in the Table, column 7 or
its complement.
11. The allele-specific oligonucleotide of claim 10 that is
a probe.

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12. The allele-specific oligonucleotide of claim 10,
wherein a central position of the probe aligns with the
polymorphic site of the fragment.
13. The allele-specific oligonucleotide of claim 10 that is
5 a primer.
14. The allele-specific oligonucleotide of claim 13,
wherein the 3' end of the primer aligns with the
polymorphic site of the fragment.
15. The allele-specific oligonucleotide of Claim 10, which
10 is selected from the group consisting of the nucleotide
sequences of the Table, column 5.
16. The allele-specific oligonucleotide of Claim 10, which
is selected from the group consisting of the nucleotide
sequences of the Table, column 6.
- 15 17. An isolated nucleic acid comprising a sequence of the
Table, column 7 or the complement thereof, wherein the
polymorphic site within the sequence or complement is
occupied by a base other than the reference base shown
in the Table, column 3.
- 20 18. A method of analyzing a nucleic acid, comprising
obtaining the nucleic acid from an individual; and
determining a base occupying any one of the polymorphic
sites shown in the Table.
19. The method of claim 18, wherein the determining
25 comprises determining a set of bases occupying a set of
the polymorphic sites shown in the Table.

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20. The method of claim 18, wherein the nucleic acid is obtained from a plurality of individuals, and a base occupying one of the polymorphic positions is determined in each of the individuals, and the method
- 5 further comprising testing each individual for the presence of a disease phenotype, and correlating the presence of the disease phenotype with the base.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/20313

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12Q1/68 C12N15/11

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12Q C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 12607 A (MOLECULAR TOOL INC) 11 May 1995 see the whole document ---	1-20
X	WANG D ET AL: "TOWARD A THIRD GENERATION GENETIC MAP OF THE HUMAN GENOME BASED ON BI-ALLELIC POLYMORPHISMS" AMERICAN JOURNAL OF HUMAN GENETICS, vol. 59, no. 4, October 1996, page A03 XP002050641 see abstract --- -/--	1-20



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

17 June 1998

Date of mailing of the international search report

23. 09. 1998

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PC1/US 97/20313

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EMBL10 emb1 Accession number: hst27766, 12 January 1995 ADAMS M D ET AL.: "Initial assessment of human gene diversity and expression patterns based upon 52 million basepairs of cDNA sequence" XP002067789 * Sequence *</p>	1-3,10, 11
X	<p>SYVANEN A -CH ET AL: "IDENTIFICATION OF INDIVIDUALS BY ANALYSIS OF BIALLELIC DNA MARKERS, USING PCR AND SOLID-PHASE MINISEQUENCING" AMERICAN JOURNAL OF HUMAN GENETICS, vol. 52, no. 1, January 1993, pages 46-59, XP002050638 see abstract see page 47, column 1, paragraph 3 - page 50, column 1, paragraph 1 see page 51, column 1, paragraph 3; figure 1; table 1</p>	1-3, 7-10,13, 14,17-20
X	<p>FR 2 722 295 A (ROUSSY INST GUSTAVE) 12 January 1996 see abstract see page 1, line 5 - page 2, line 17 see page 9, line 9 - page 10, line 15; tables 2,3</p>	1-3,7-9, 17-20
X	<p>HRUBAN R H ET AL: "K-RAS ONCOGENE ACTIVATION IN ADENOCARCINOMA OF THE HUMAN PANCREAS A STUDY OF 82 CARCINOMAS USING A COMBINATION OF MUTANT-ENRICHED POLYMERASE CHAIN REACTION ANALYSIS AND ALLELE-SPECIFIC OLIGONUCLEOTIDE HYBRIDIZATION" AMERICAN JOURNAL OF PATHOLOGY, vol. 143, no. 2, 1 August 1993, pages 545-554, XP000572114 see the whole document</p>	10-16, 18-20
X	<p>GROMPE M: "THE RAPID DETECTION OF UNKNOWN MUTATIONS IN NUCLEIC ACIDS" NATURE GENETICS, vol. 5, no. 2, October 1993, pages 111-117, XP000615290 see the whole document</p>	18-20

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/20313

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>NIKIFOROV T T ET AL: "GENETIC BIT ANALYSIS: A SOLID PHASE METHOD FOR TYPING SINGLE NUCLEOTIDE POLYMORPHISMS" NUCLEIC ACIDS RESEARCH, vol. 22, no. 20, October 1994, pages 4167-4175, XP002015765 see the whole document -----</p>	18-20

INTERNATIONAL SEARCH REPORT

I. national application No.
PCT/US 97/20313

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-20 (partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-20 (partially)

INVENTION 1: An isolated nucleic acid segment including a polymorphic site having the nucleotide sequence of SEQ ID NO:1149, or the complement of that segment or portions thereof, an allele-specific oligonucleotide probe or primer hybridizing to such a segment or its complement, and a method of analyzing such a nucleic acid by determining the bases occupying the polymorphic site(s).

2. Claims: 1-20 (partially)

INVENTION 2 to INVENTION 2669:

-Idem as invention 1 but limited to the sequences having SEQ ID Nos. 1150 to 3817. (Invention 2 is limited to SEQ ID NO:1150, invention 3 is limited to SEQ ID NO:1151, ..., invention 2269 is limited to SEQ ID NO:3817).

For the sake of conciseness, the first group is explicitly defined, the other groups are defined by analogy hereto.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC/US 97/20313

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9512607 A	11-05-95	AU 8132194 A CA 2175695 A EP 0726905 A US 5762876 A	23-05-95 11-05-95 21-08-96 09-06-98
FR 2722295 A	12-01-96	NONE	